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EPA Region 5 Records Ctr.



259780

June 1, 2006

Mr. Kenneth Theisen
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**Subject: PCB-Contaminated Soil Removal Action Summary Report
Outboard Marine Corporation Plant #2
Waukegan, Lake County, Illinois
Technical Direction Document No. S05-0507-002
Tetra Tech Contract No. 68-W-00-129**

Dear Mr. Theisen:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting the enclosed PCB-contaminated soil removal action summary report for the Outboard Marine Corporation (OMC) Plant #2 in Waukegan, Illinois. Tetra Tech was the START contractor responsible for providing oversight of PCB-contaminated soil excavation and disposal, and state endangered plant species removal and restoration activities performed by U.S. Environmental Protection Agency's (U.S. EPA) contractor Environment Quality Management, Inc. (EQM). During the excavation, Tetra Tech collected 44 soil samples from various sites and the laboratory analysis of the samples are presented in this report as well.

If you have any questions or comments about the report or need additional copies, please contact me at (262) 879-0175 ext. 225.

Sincerely,

Ken Brown, CHMM
Environmental Scientist

Enclosure

cc: Lorraine Kosik, U.S. EPA START Project Officer
Therese Gioia, Tetra Tech START Program Manager

**U.S. ENVIRONMENTAL PROTECTION AGENCY
PCB-CONTAMINATED SOIL REMOVAL ACTION SUMMARY REPORT
OUTBOARD MARINE CORPORATION PLANT #2
WAUKEGAN, LAKE COUNTY, ILLINOIS**

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 5 Emergency Response Branch
77 West Jackson Boulevard
Chicago, IL 60604**

TDD No.:	S05-0507-002
Date Prepared:	June 1, 2006
Contract No.:	68-W-00-129
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ACRONYMS AND ABBREVIATIONS

AOC	Area of concern
bgs	Below ground surface
BHC	Hexachlorocyclohexane
BMS	Backfill material sample
Bombardier	Bombardier Motor Corporation
CSS	Confirmation soil sample
D	Dichlorophenoxyacetic acid
Deigan	Deigan and Associates, LLC
DOJ	United States Department of Justice
EI	Environment, Inc.
EMS	Excavated material sample
EOX	Extractable organic halides
ERRS	Emergency and Rapid Response Services
EQM	Environmental Quality Management, Inc.
EW	East wall
F	Floor
°F	Degrees Fahrenheit
ID	Identification
IDNR	Illinois Department of Natural Resources
IEPA	Illinois Environmental Protection Agency
LSS	Landfill soil sample
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
µg/m ³	Microgram per cubic meter
µg/cm ²	Microgram per square centimeter
NIOSH	National Institute for Occupational Safety and Health
NW	North wall
OMC	Outboard Marine Corporation
OSC	On-scene Coordinator
PA/VS	Preliminary assessment/visual site inspection
PCB	Polychlorinated biphenyl
ppm	Parts per million
PRP	Potentially responsible party
START	Superfund Technical Assessment and Response Team
SW	South wall
TDD	Technical Direction Document
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
Tetra Tech	Tetra Tech EM Inc.
TP	Trichlorophenoxypropionic acid
TSCA	Toxic Substances Control Act
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VOC	Volatile organic compound
WW	West wall



1.0 INTRODUCTION

Under Technical Direction Document (TDD) No. S05-0507-002, the United States Environmental Protection Agency (U.S. EPA) tasked the Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) to perform oversight of polychlorinated biphenyl- (PCB) contaminated soil removal activities at the Outboard Marine Corporation (OMC) Plant Number 2 (#2) site in Waukegan, Lake County, Illinois. The excavation was performed by U.S. EPA's Emergency and Rapid Response Services (ERRS) contractor, Environmental Quality Management, Inc. (EQM), of Cincinnati, Ohio. The OMC Trust had previously conducted waste removal activities in fall 2002, and U.S. EPA had conducted waste removal activities in summer 2003.

PCB contamination was documented by Deigan and Associates, LLC (Deigan) of Libertyville, Illinois during sampling events on the lakefront portion of the former OMC Plant #2 property in July 2004, October 2004, and May 2005. In response to the PCB contamination in the lakefront area, the U.S. EPA and its contractor conducted an environmental assessment to confirm the contamination and further define the extent of PCB contamination. The extent of contamination appeared to be defined along the site fence on the eastern edge of the Plant #2 property, between the east containment cell and the Lake Michigan shore, running south of the North Ditch about 400 feet. Several state-listed endangered plant species were identified by Deigan in the area, but only one, Beach Marram Grass, was identified in the excavation area. Beach Marram Grass plants were removed from the site prior to the excavation of the PCB-contaminated soil, and stored in plastic to be replanted later. The grass plants were replanted in the same location they occurred naturally prior to their removal. Specifically, Tetra Tech was assigned to develop a field sampling plan; perform oversight of excavation activities performed by the ERRS contractor; collect soil samples for laboratory testing; provide site photographic documentation; provide oversight of the ERRS contractor, provide a written log documenting all on-site activities; and prepare this summary report including photos, summarized analytical results, and laboratory reports.

Section 2.0 of this report discusses site location and background information. Section 3.0 discusses removal activity oversight and soil sampling. Section 4.0 summarizes START's findings during the oversight activities and analysis of laboratory results. Section 5.0 presents recommendations for further actions. References cited in the report are listed after Section 5.0. Appendix A provides photographs of



U.S. EPA removal activities. Appendix B includes START's field notes. Appendix C contains validated analytical results for the samples collected by START.



2.0 BACKGROUND INFORMATION

This section discusses OMC Plant #2's location and describes the site and its history.

2.1 SITE LOCATION AND DESCRIPTION

Removal activities summarized in this report were performed at OMC Plant #2, located in the city of Waukegan, Lake County, Illinois (see Figure 1). The site coordinates are Latitude 42°22'8.6" North and Longitude 87°49'10.1" West.

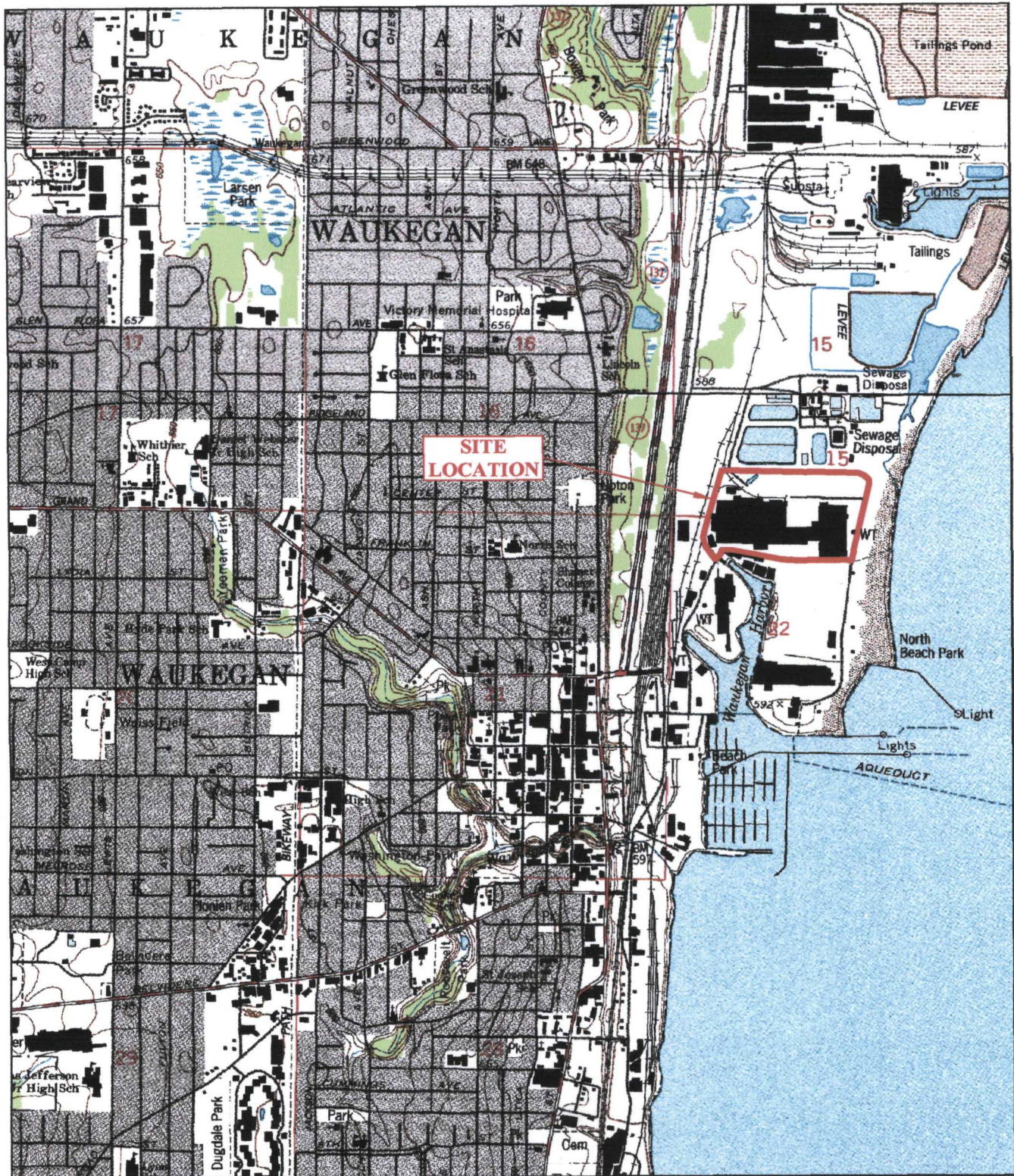
The OMC Plant #2 property encompasses 65 acres, which includes approximately 1,000,000 square feet of a former manufacturing plant building and several parking lot areas to the south and north of the building. The Plant #2 Site is bordered by the North Ditch and North Shore Sanitary District to the north, the public beaches of Lake Michigan to the east, by Seahorse Drive and Larsen Marine to the south, and a railroad to the west. Site features are depicted in Figure 2.

2.2 SITE HISTORY

On December 22, 2000, OMC filed for Chapter 11 federal bankruptcy protection and ceased all operations. Bombardier Motor Corporation (Bombardier), a Canadian company, bought the OMC product lines and some assets in Plant #2 on February 5, 2001. Bombardier planned to sell, or move to a new facility in Wisconsin. The court-appointed Trustee filed a petition to abandon the property on November 15, 2001. On August 9, 2002, the court entered an order converting OMC's Chapter 11 case to a Chapter 7 case.

As a result of this pending abandonment, a Resource Conservation and Recovery Act (RCRA) Preliminary Assessment/Visual Site Inspection (PA/VSI) was done at the site in July 2001 (TechLaw 2001). Many hazardous substances were found at the site, therefore the U.S. EPA Emergency Response Branch was asked to perform a comprehensive site investigation. This investigation would address all avenues of exposure to determine if an imminent and substantial endangerment to public health and/or the environment existed.





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SCALE IN FEET

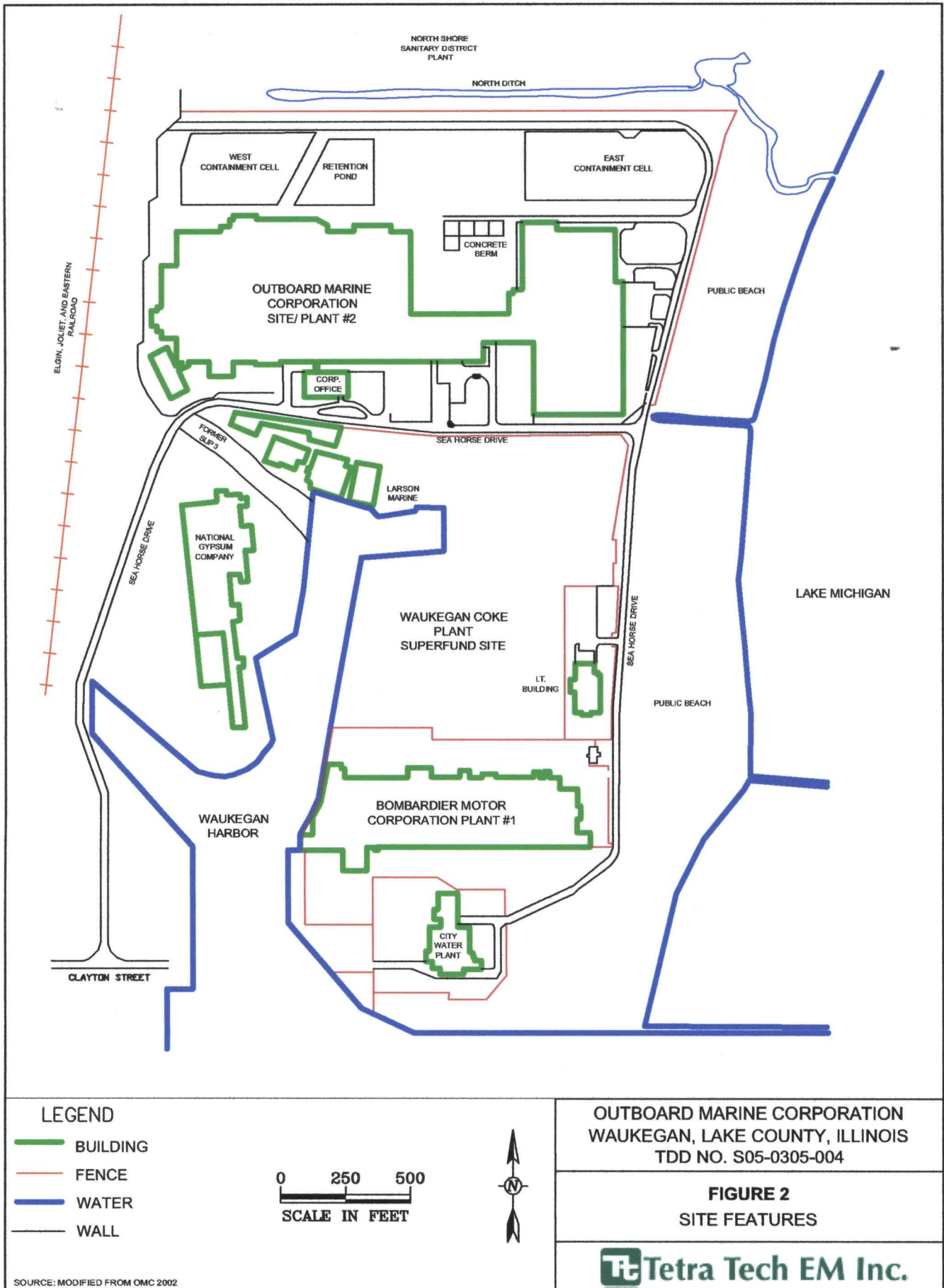


OUTBOARD MARINE CORPORATION
WAUKEGAN, LAKE COUNTY, ILLINOIS
TDD NO. S05-0507-002

FIGURE 1
SITE LOCATION

Tetra Tech EM Inc.

SOURCE: MODIFIED FROM USGS, 1993a and 1993b



SOURCE: MODIFIED FROM OMC 2002

Plant #2 existed for over 50 years, during which it housed various aspects of the manufacture of marine engines. Throughout the 60's and into the 70's, the plant used hydraulic oil containing PCBs in its die casting operations. One of many locations where the oil was recovered from operations was the chip wringer area, where aluminum chips were removed from the oil. In addition, the plant used large amounts of trichloroethene (TCE) as a degreaser, and a very large degreaser unit once operated at the site.

On March 4 through 6, 2002, the U.S. EPA and its contractor collected numerous samples from the ambient air, drums and tanks, monitoring wells, sediment from the North Ditch, soil, insulating materials, and surface area (wipe samples) in and near the plant. Results of the inspection showed the presence of hazardous materials and wastes, including radioactive materials, hydrofluoric acid, metallic mercury, flammable liquids, chlorinated solvents, PCBs (in two dozen large electrical transformers), and asbestos. Two air samples contained PCBs above the National Institute for Occupational Safety and Health (NIOSH) standard of 1 microgram per cubic meter ($\mu\text{g}/\text{m}^3$). In addition, numerous wipe samples taken from machines and floors contained PCBs above the NIOSH industrial standard of 10 micrograms per 100 square centimeters ($\mu\text{g}/\text{cm}^2$).

As a result of the analytical results of the samples described above that were written in the report "Outboard Marine Corporation: Discovery Site Visit Report" (Tetra Tech 2002), the U.S. Department of Justice (DOJ), U.S. EPA's Office of Regional Counsel, along with the State of Illinois Attorney General's Office and the OMC Trustee agreed on a settlement which required the Trustee to take certain actions before it could abandon the site. In the settlement, which was intended to address only the most obvious threats to the public, the Trustee was required to complete the following remediations:

- Remove and properly dispose of all drums and containers and the draining of all tanks in Plant #2.
- Drain and flush all transformers in Plant #2.
- Drain and dispose of all contents of the die cast machines and other pieces of equipment found in Plant #2.
- Remove and dispose of all batteries and capacitors found in Plant #2.
- Pump and dispose of all liquids in the sump/cistern inside the chip wringer room and outside the chip wringer room in the storm sewer.
- Decontaminate all die cast machines and metal working machines, and properly dispose of all collected liquids.

Plant #2 was declared abandoned on December 10, 2002, by the Bankruptcy Court (Tetra Tech 2003a).



U.S. EPA conducted waste removal at Plant #2 over a 9-week period beginning in May 2003. The completed removal activities included waste removal, floor decontamination, tunnel inspections, soil and groundwater sampling, asbestos removal, and transformer draining. Determination based on the analytical results from samples collected during the site visit was that most of the PCB contamination existed in the older portions of the plant (western portion). Machines in the metal working area were removed and scrapped, and the floor was cleaned with high-pressure, hot water. Tunnels in the old die cast area were inspected and videotaped to document potential contamination sources. No substantial contaminant releases to the environment were observed in the tunnels. Soil and groundwater were sampled during U.S. EPA removal activities to document releases of contaminants to the environment. Transformers were drained and left disconnected.

During U.S. EPA removal activities, START conducted air sampling to determine air quality inside the Plant #2 building, and sample results showed that PCB concentrations in air were still elevated. Wipe samples of the ceiling structure collected during potentially responsible party (PRP) removal activities and post-cleaning floor wipe samples indicated that the ceiling and floor may be the sources for PCBs in the air in the older (western) portion of the plant. Concentrations of PCBs in the air may persist until more extensive measures for decontaminating the floor and interior ceiling structure are undertaken. U.S. EPA removal activities are documented in the report entitled "EPA Removal Action Summary Report" dated December 12, 2003 (Tetra Tech 2003b).

Upon abandonment of the Plant #2 property by the OMC Trust on December 10, 2002, U.S. EPA arranged for operation and maintenance of the treatment system associated with the sediment containment cells. These services could only be funded by U.S. EPA for a period of 1 year, and so, as of December 10, 2003, arrangements with the City of Waukegan were required to continue these operations.

In 2004, the City of Waukegan contracted Deigan to perform an environmental site investigation of the easternmost portion of the OMC Plant #2, next to the Lake Michigan shoreline. The sampling area is approximately 13 acres located along the easternmost side of the OMC Plant #2 property. Deigan set up a grid pattern of surface and subsurface borings. Sediment samples were collected from approximately 100-foot station intervals along the north and south drainage ditches over three phases of sampling. Three of the soil borings were constructed as shallow monitoring wells to sample the groundwater. Deigan collected soil, sediment, and groundwater samples in July 2004, October 2004, and May 2005. Nine



sediment samples were collected from the North Ditch and five samples from the South Ditch. Soil PCB contamination was found in concentrations ranging from 1.2 to 14,000 milligrams per kilogram (mg/kg). PCB contamination was found in sediments at concentrations ranging from 0.068 to 150 mg/kg (Deigan 2004).

In response to the PCB contamination in the lakefront area, the U.S. EPA contracted Tetra Tech to conduct an environmental assessment to confirm the contamination and further define the extent of PCB contamination. The extent of contamination was determined and the highest soil concentrations were found in the northwest corner of the site near the North Ditch and the east sediment containment cell (Tetra Tech 2005). Figure 3 depicts the soil and sediment sampling locations from Deigan's and Tetra Tech's site assessments.



3.0 REMOVAL AND SAMPLING ACTIVITIES

EQM was contracted by U.S. EPA under the ERRS contract to perform excavation activities, while Tetra Tech was retained under the START contract to provide oversight of EQM, conduct sampling, and document the removal actions. The following sections detail the tasks performed during the excavation at the OMC Plant #2 site.

3.1 EXCAVATION ACTIVITIES

EQM initiated excavation activities by removing PCB-contaminated soil from the north end of the subject site beginning December 14, 2005. Planned activities included soil excavation from two areas, a north area running north to south along the fence line to excavate sample locations S-25, S-34, S-101, and S105, and a south area excavating sample locations S23-39, S-47, and S-107. In accordance with State of Illinois regulations, START had consulted with the Illinois Department of Natural Resources (IDNR) for guidance on how to best address the state-endangered grass plants present in an area of the site to be excavated. Per that consultation, prior to the initiation of excavation activities, Beach Marram grass was removed from the south excavation area by hand and stored in plastic to keep it moist. An excavator was used to scrape off the top 6 inches of soil, which was stockpiled nearby to be replaced after excavation activities were completed. The PCB-contaminated soil was transported in off-road dump trucks and deposited on an asphalt surface. Excavation activities were conducted in three different areas: north and south excavations, and the South Ditch. Figure 4 depicts the locations and extent of these excavations.

As excavation proceeded, the contaminated soil was transferred to a stockpile located on the asphalt surface of a former parking lot. The parking lot was located on the north side of the Plant #2 building. Two excavators were used initially to remove contaminated soil from the north and south excavations. Two off-road dump trucks transported the soil to the staging area where it was stockpiled. As excavation proceeded one excavator was moved to the soil stockpile to heap the soils further. This excavator also loaded the off-road trucks with clean sand brought on site to be backfilled into the excavations.

In addition to documentation, START collected soil samples from excavation floors and side walls, material removed from the excavations, and the clean sand used to backfill the excavations.





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LEGEND

EXCAVATION BOUNDARY



0 62.5 125 Feet

OUTBOARD MARINE CORPORATION
WAUKEGAN, LAKE COUNTY, ILLINOIS
TDD NO. S05-0507-002

FIGURE 4
EXCAVATION LOCATIONS
AND BOUNDARIES

 Tetra Tech EM Inc.

SOURCE: MODIFIED FROM USGS, 2002.

The soil samples were submitted for analysis to TestAmerica, Inc., in Buffalo Grove, Illinois. All samples were analyzed for PCBs by U.S. EPA Method 8082.

On December 20, 2005, EQM moved one excavator to the South Ditch to excavate contaminated sediment. Previous samples collected from the South Ditch exhibited PCB concentrations up to 150 parts per million (ppm). With the excavator situated on the north bank of the South Ditch, sediment was removed from an area about 8 feet wide by 150 feet long. Sediment was excavated to a depth of 2 feet below ground surface (bgs). The sediment was transported in the off-road dump trucks to the stockpile on the north side of the building. The South Ditch was not backfilled and three samples were collected from the floor of the ditch.

Excavation activities refocused on the north and south excavations. After an initial attempt at removing contaminated soils from the north excavation, START collected samples CSS-WW-3-02 through CSS-F-8-15 from the excavation floor and side walls. Laboratory analytical results for samples from the east side walls, CSS-EW-3-07 and CSS-EW-3-08, indicated PCB concentrations of 54.5 ppm and 765 ppm, respectively. Analytical results for a sample collected from the south side wall, CSS-SW-8-12, indicated a PCB concentration of 63.4 ppm. EQM directed its operators to remove additional soil from the east and south walls of the north excavation. An additional volume of soil measuring 6 feet wide by 4 feet deep by 100 feet long was removed from the east wall and an additional 10 feet from south wall of the north excavation.

After the additional excavation of the east and south side walls, two soil samples were collected from the north excavation east side wall. Samples CSS-EW-3-38 and CSS-EW-3-39 exhibited PCB concentrations of 667 and 1,140 ppm, respectively, so a second volume of additional soil was removed from the east wall of the north excavation. The additional soil volume measured 10 feet wide by 3 feet deep by 60 feet long. No additional samples were collected after the second soil removal from the east wall. The north excavation area was backfilled with clean sand.

Excavation in the south area continued until contaminated soil was removed to depths of 6 feet bgs at S-47 and 8 feet bgs at S-23. Floor and side wall samples collected from the south excavation exhibited PCB concentrations generally below 10 ppm. One sample (CSS-NW-5-26) from the north wall of the south excavation exhibited 48.2 ppm PCBs and a floor sample, CSS-F-6-27, exhibited a PCB concentration of



32.2 ppm, prompting additional soil removal from the north wall. No additional soil samples were collected from north wall. The south excavation was then backfilled with clean sand.

The north excavation backfilling and south excavation soil removal was completed when transport of organic sand mix to the site began. After backfilling was complete, the original topsoil removed from the south excavation and piled nearby was replaced, covering about half of the south excavation's surface. The organic sand mix (a mix of 70 percent clean sand and 30 percent double-screened compost material) was spread over the rest of the south and the entire north excavation to a depth of six inches. On January 6, 2006, START and the U.S. EPA On-Scene Coordinator (OSC) replanted the Marram Grass plants that had been removed prior to excavation activities. The plants were carefully handled to minimize damage and placed to cover the area from which they were removed.

Decontamination of the heavy equipment used on-site was conducted using a high-pressure water jet. Some contaminated material spilled from the truck to the roadway while being transported from the site to the parking lot. Decontamination of the roadway was performed using a sweeper provided by the City of Waukegan.

3.2 SOIL SAMPLING

Soil sampling was conducted during excavation activities to determine the effectiveness of the removal, to document the PCB concentrations being removed from the site, and to confirm that clean soils brought on site were not contaminated. The purpose of sampling and quick laboratory response was to provide current information about site conditions as excavation was proceeding. The total number of samples collected during excavation activities was 44. These samples were collected from three sources: excavated material (EMS), confirmation soil samples (CSS), and backfill material (BMS). A total of 31 confirmation samples were collected from different excavation locations to determine the PCB content of soil left in place. Two backfill material samples were collected.

Soil sample identifications were generated by the sample type, location, and number as follows:

Sample type: confirmation soil sample (CSS), excavated material sample (EMS), backfill material sample (BMS), and landfill soil sample (LSS)



Sample location: west wall (WW), east wall (EW), north wall (NW), south wall (SW), floor (F)

Sample depth: number noting depth in feet below ground surface

Sample number: sequential number to uniquely identify the sample and track the number of samples collected

Soil samples were stored in a cooler while shipping to the laboratory. Samples were submitted to Test America, Inc. for analysis of PCBs by U.S. EPA Method 8082. Results of soil sample analyses are summarized in Tables 1, 2 and 3. Locations of soil samples are provided in Figures 5 and 6.



TABLE 1

**OMC PLANT #2 CONFIRMATION SOIL SAMPLE SOIL ANALYTICAL RESULTS
U.S. EPA SOIL REMOVAL
DECEMBER 14, 2005 - JANUARY 6, 2006**

SAMPLE ID	DATE SAMPLED	DEPTH (feet)	PCB-1248 CONCENTRATION (mg/kg)	DESCRIPTION
CSS-WW-3-02	12/16/05	3	138	West wall of north excavation along containment cell
CSS-WW-3-03	12/16/05	3	744	West wall of north excavation along containment cell
CSS-F- 4-04	12/16/05	4	14.8	Floor of north excavation
CSS-F- 4-05	12/16/05	4	18.4	Floor of north excavation
CSS-NW-3-06	12/19/05	3	13.1	North wall of north excavation
CSS-EW-3-07	12/19/05	3	54.5	East wall of north excavation
CSS-EW-3-08	12/19/05	3	765	East wall of north excavation
CSS-EW-6-09	12/19/05	6	4.67	East wall of north excavation
CSS-WW-6-10	12/19/05	6	0.444	West wall of north excavation
CSS-WW-8-11	12/19/05	8	0.0516	West wall of north excavation
CSS-SW-8-12	12/19/05	8	63.4	South wall of north excavation
CSS-EW-8-13	12/19/05	8	1.06	East wall of north excavation
CSS-F-6-14	12/19/05	6	1.7	Floor of north excavation
CSS-F-8-15	12/19/05	8	0.0257	Floor of north excavation
CSS-SW-5-20	12/19/05	5	0.203	South wall of south excavation
CSS-NW-5-21	12/19/05	5	0.108	North wall of south excavation
CSS-NW-5-23	12/19/05	5	0.593	North wall of south excavation
CSS-EW-5-24	12/19/05	5	0.276	East wall of south excavation
CSS-F-6-25	12/19/05	6	3.5	Floor of south excavation
CSS-NW-5-26	12/19/05	5	48.2	North wall of south excavation
CSS-F-6-27	12/19/05	6	32.2	Floor of south excavation



SAMPLE ID	DATE SAMPLED	DEPTH (feet)	PCB-1248 CONCENTRATION (mg/kg)	DESCRIPTION
CSS-F-2-28	12/20/05	2	1.68	Floor of south excavation
CSS-F-2-29	12/20/05	2	4.01	Floor of south excavation
CSS-SD-2-30	12/20/05	2	<0.0321	Floor of South Ditch
CSS-SD-2-31	12/20/05	2	<0.0319	Floor of South Ditch
CSS-SD-2-32	12/20/05	2	<0.0318	Floor of South Ditch
CSS-EW-7-35	12/21/05	7	0.96	East wall of south excavation
CSS-F-8-36	12/21/05	8	0.538	Floor of south excavation
CSS-SW-7-37	12/21/05	7	0.321	South wall of south excavation
CSS-EW-3-38	12/22/05	3	667	East wall of north excavation
CSS-EW-3-39	12/22/05	3	1140	East wall of north excavation

Notes

Samples were analyzed for PCBs using U.S. EPA Method 8082, and only PCB-1248 was detected.

All results in ppm (mg/kg) based on dry weight unless otherwise noted.

Results in **Bold/Shaded** indicate concentrations exceeding method detection limit.

CSS = Confirmation soil sample

mg/kg = Milligram per kilogram

ppm = Part per million

OMC = Outboard Marine Corporation

PCB = Polychlorinated biphenyl

U.S. EPA = U.S. Environmental Protection Agency



TABLE 2

OMC PLANT #2 EXCAVATED MATERIAL SAMPLE SOIL ANALYTICAL RESULTS
U.S. EPA SOIL REMOVAL
DECEMBER 14, 2005 - JANUARY 6, 2006

SAMPLE ID	DATE SAMPLED	DEPTH (feet)	PCB-1248 CONCENTRATION (mg/kg)	DESCRIPTION
EMS-F-2-01	12/16/05	2	20.2	Floor of north excavation
EMS-P-0-16	12/19/05	0	440	Composite sample of 24 points on waste pile
EMS-P-0-17	12/19/05	0	543	Composite sample of 24 points on waste pile
EMS-BP-0-33	12/21/05	0	1.86	Interim pile in south excavation
EMS-P-0-34	12/21/05	0	223	Composite of waste pile
EMS-GR-0-40	12/22/05	0	67.1	Composite of waste pile (gray ring)
EMS-ODR-0-41	12/22/05	0	87.7	Composite of waste pile (outer dark ring)
EMS-IHP-0-42	12/22/05	0	67.9	Composite of waste pile (inner heaped pile)

Notes

Samples were analyzed for PCBs using U.S. EPA Method 8082, and only PCB-1248 was detected.

All results in ppm (mg/kg) based on dry weight unless otherwise noted.

Results in **Bold/Shaded** indicate concentrations exceeding method detection limit.

EMS = Excavated material sample

mg/kg = Milligram per kilogram

ppm = Part per million

OMC = Outboard Marine Corporation

PCB = Polychlorinated biphenyl

U.S. EPA = U.S. Environmental Protection Agency



TABLE 3

**OMC PLANT #2 BACKFILL MATERIAL SAMPLE SOIL ANALYTICAL RESULTS
U.S. EPA SOIL REMOVAL
DECEMBER 14, 2005 - JANUARY 6, 2006**

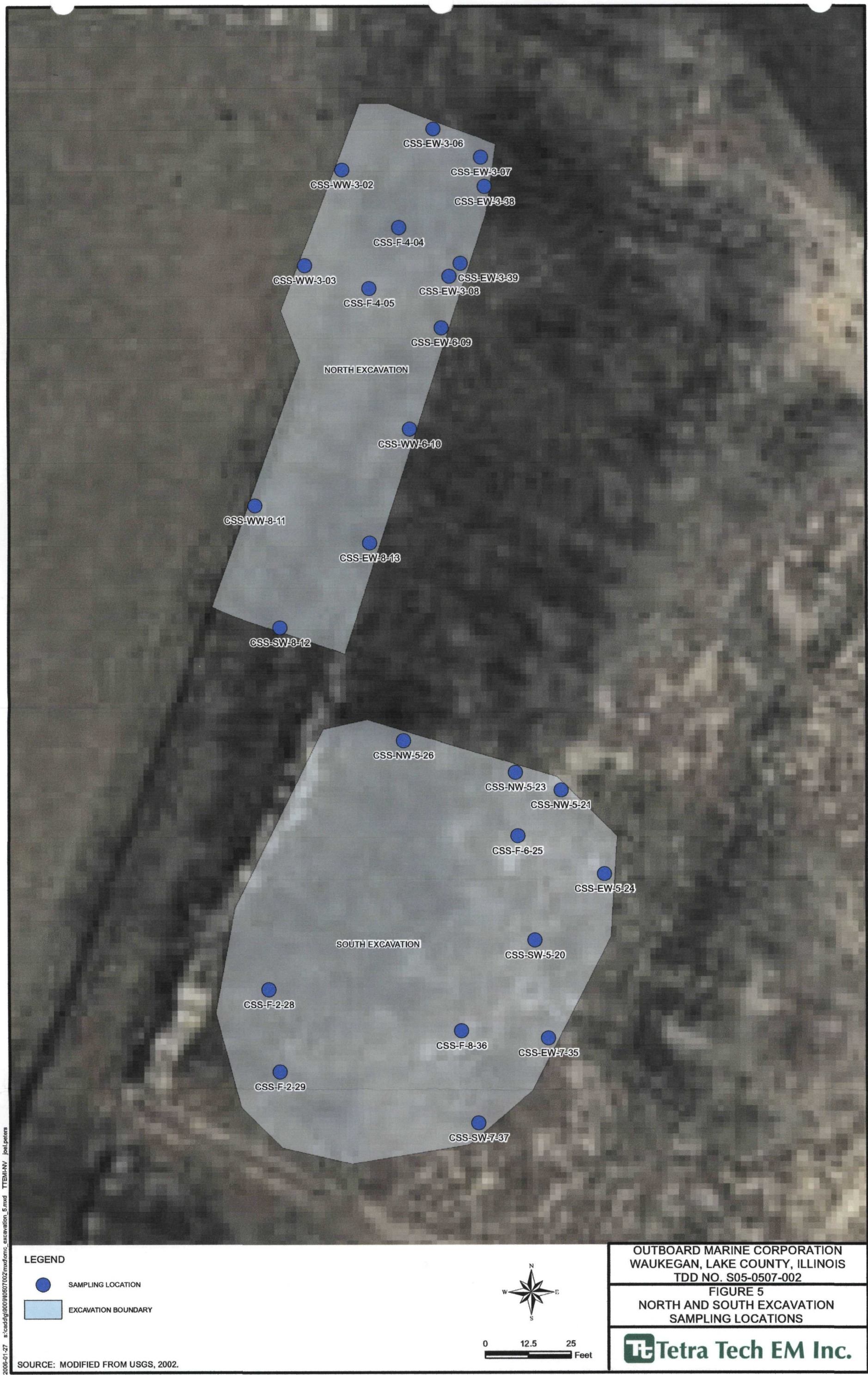
SAMPLE ID	DATE SAMPLED	DEPTH (feet)	PCB-1248 CONCENTRATION (mg/kg)
BMS-P-0-18	12/19/05	0	0.0724
BMS-P-0-19	12/19/05	0	<0.0264

Notes

Samples were analyzed for PCBs using U.S. EPA Method 8082, and only PCB-1248 was detected.
All results in ppm (mg/kg) based on dry weight unless otherwise noted.
Results in **Bold/Shaded** indicate concentrations exceeding method detection limit.

BMS = Backfill material sample
mg/kg = Milligram per kilogram
ppm = Part per million
OMC = Outboard Marine Corporation
PCB = Polychlorinated biphenyl
U.S. EPA = U.S. Environmental Protection Agency







4.0 SUMMARY

U.S. EPA completed excavation activities using ERRS contractor EQM and START contractor Tetra Tech to remove PCB-contaminated soil from an area just east of the east sediment containment cell. The excavations removed contaminated soil from two areas adjacent to the east sediment containment cell. Contaminated sediment was also removed from a 150-foot stretch of the South Ditch to a depth of about 2 feet. All excavated soil and sediment were stockpiled on the asphalt surface of a former parking lot.

Confirmation soil samples collected from the north excavation indicate that PCB-contaminated soil remains in place adjacent to the east sediment containment cell. This area is in close proximity to the cell wall, so no efforts to remove additional soil were expended to avoid potential damage to the cell. Soils from the south excavation were removed to a depth of 8 feet bgs at sample location S-23 and to 4 feet bgs elsewhere. Photographs of excavation activities are presented in Appendix A.

In accordance with State of Illinois regulations, START initiated a consultation with IDNR for guidance on how to best address the state endangered grass plants that were present in an area of the site to be excavated. Per that consultation, the Beach Marram grass was removed from the south excavation area by hand and stored in plastic to keep it moist. An excavator was used to scrape off the top 6 inches of soil, and it was stockpiled nearby and replaced after excavation activities were completed. After the south excavation had been backfilled, START and the OSC replanted the Marram Grass plants. The plants were carefully handled to minimize damage and placed to cover the area from which they were removed.

The PCB-contaminated soil was approved for landfill disposal in early May 2006, and transportation of the soil to the Onyx Zion Landfill in Zion, Illinois was completed on May 19, 2006. Approximately 9,743 tons of soil were disposed of at the landfill. The transplanted grass plants were observed to viable, with at least 85 percent of the plants showing new, green growth.

All equipment was decontaminated on site and the former parking lot was cleaned with a street sweeper.



TABLE 4
OMC PLANT #2 LANDFILL SOIL SAMPLE ANALYTICAL RESULTS
U.S. EPA SOIL REMOVAL
DECEMBER 14, 2005 - JANUARY 6, 2006

Analyte	LSS-0-0-45	
	Results	Units
Flashpoint	>220	°F
Free Liquid	No sample flowed	NA
pH	8.63	PH Units
Phenol	<0.676	mg/kg
Reactive Cyanide	<0.139	mg/kg
Reactive Sulfide	<6.97	mg/kg
Extractable Organic Halides	<50.0	mg/kg
PCBs	43.8	mg/kg
TCLP Metals by U.S. EPA Method 1311/6000/7000		
Mercury	<0.000200	mg/L
Arsenic	<0.0500	mg/L
Barium	0.904	mg/L
Cadmium	<0.00500	mg/L
Chromium	<0.100	mg/L
Selenium	<0.0500	mg/L
Silver	<0.0500	mg/L
Lead	<0.00500	mg/L
TCLP Semivolatiles by U.S. EPA Method 1311/8270C		
o-Cresol	<17.6	mg/L
m,p-Cresol	<17.6	mg/L
Cresol	<17.6	mg/L
1,4-Dichlorobenzene	<0.660	mg/L
2,4-Dinitrotoluene	<0.0176	mg/L
Hexachlorobenzene	<0.0176	mg/L
Hexachlorobutadiene	<0.0440	mg/L
Hexachloroethane	<0.264	mg/L
Nitrobenzene	<0.176	mg/L
Pentachlorophenol	<8.80	mg/L
Pyridine	<0.440	mg/L
2,4,5-Trichlorophenol	<35.2	mg/L
2,4,6-Trichlorophenol	<0.176	mg/L
TCLP Chlorinated Herbicides by U.S. EPA Method 8151		
2,4-D	<0.100	mg/L
2,4,5-TP (Silvex)	<0.0100	mg/L



Analyte	LSS-0-0-45	
	Results	Units
TCLP Pesticides by EPA Method 1311/8081A		
gamma-BHC (Lindane)	<0.000500	mg/L
Chlordane	<0.000500	mg/L
Endrin	<0.000500	mg/L
Heptachlor	<0.000500	mg/L
Heptachlor epoxide	<0.000500	mg/L
Methoxychlor	<0.000500	mg/L
Toxaphene	<0.0100	mg/L

Notes

Samples were analyzed for PCBs using U.S. EPA Method 8082, and only PCB-1248 was detected.

All results in ppm (mg/kg) based on dry weight unless otherwise noted.

Results in **Bold/Shaded** indicate concentrations exceeding method detection limit.

BHC = Hexachlorocyclohexane

D = Dichlorophenoxyacetic acid

TP = Trichlorophenoxypropionic acid

°F = degrees Fahrenheit

mg/kg = Milligram per kilogram

mg/L = Milligram per liter

OMC = Outboard Marine Corporation

PCB = Polychlorinated biphenyl

TCLP = Toxicity Characteristic Leaching Procedure

U.S. EPA = U.S. Environmental Protection Agency



5.0 RECOMMENDATIONS

Excavation activities conducted by the U.S. EPA Emergency Response Branch concluded on January 6, 2006, while disposal activities concluded on May 19, 2006. No further work is recommended for the site.



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- Tetra Tech. 2003a. "PRP Removal Action Summary Report for Outboard Marine Corporation Plant #2, Waukegan, Lake County, Illinois." January 20.
- Tetra Tech. 2003b. "USEPA Removal Action Summary Report, Outboard Marine Corporation Plant #2, Waukegan, Lake County, Illinois." December 12
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- U.S. Geological Survey (USGS). 1993a. 7.5-Minute Series Topographic Map of Waukegan, Illinois, Quadrangle.
- USGS. 1993b. 7.5-Minute Series Topographic Map of Zion, Illinois-Wisconsin, Quadrangle.



APPENDIX A
REMOVAL ACTION PHOTOGRAPHS

(12 Pages)





Photograph No.: 1

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Removal of state endangered grass plants from south excavation area.

Orientation: North

Date: December 15, 2005



Photograph No.: 2

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Brush and tree removal from areas to be excavated.

Orientation: East

Date: December 15, 2005



Photograph No.: 3

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Excavation of soil from the north excavation area. Note the force main along the right edge of the excavation.

Orientation: South

Date: December 16, 2005



Photograph No.: 4

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Excavated material stockpile on former asphalt parking lot.

Orientation: North

Date: December 16, 2005



Photograph No.: 5

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: North excavation area showing shallow groundwater depth.

Orientation: North

Date: December 19, 2005



Photograph No.: 6

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: North excavation area. Force main is present on the right side of the excavation and a floor sample location (CSS-F-4-05) is marked in the foreground.

Orientation: South

Date: December 19, 2005



Photograph No.: 7
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Stockpile of topsoil scraped from top 6 inches of south excavation.
Orientation: West
Date: December 19, 2005



Photograph No.: 8
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Excavation of material from south excavation area.
Orientation: East
Date: December 19, 2005



Photograph No.: 9
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Excavation of South Ditch sediment. The excavator accessed the ditch from its north bank.
Orientation: East
Date: December 20, 2005



Photograph No.: 10
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Excavation of South Ditch.
Orientation: West
Date: December 20, 2005



Photograph No.: 11

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Soil removal from the south excavation area.

Orientation: East

Date: December 21, 2005



Photograph No.: 12

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Soil removal from the south excavation area.

Orientation: East

Date: December 21, 2005



Photograph No.: 13

Orientation: South

TDD Number: S05-0507-002

Date: December 21, 2005

Location: Outboard Marine Corporation Plant #2

Subject: Backfilling clean sand into the north excavation.



Photograph No.: 14

Orientation: West

TDD Number: S05-0507-002

Date: December 20, 2005

Location: Outboard Marine Corporation Plant #2

Subject: Backfilled south excavation.



Photograph No.: 15
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Completed backfill of north excavation.

Orientation: North
Date: December 23, 2005



Photograph No.: 16
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Loader replacing original topsoil over south excavation area.

Orientation: East
Date: January 4, 2006



Photograph No.: 17

Orientation: North

TDD Number: S05-0507-002

Date: January 4, 2005

Location: Outboard Marine Corporation Plant #2

Subject: Spreading special topsoil mix recommended by IDNR.



Photograph No.: 18

Orientation: North

TDD Number: S05-0507-002

Date: January 6, 2006

Location: Outboard Marine Corporation Plant #2

Subject: Replanting grass plants by hand in the south excavation area.



Photograph No.: 19
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Replanted Beach Marram Grass.

Orientation: Unknown
Date: January 6, 2006



Photograph No.: 20
TDD Number: S05-0507-002
Location: Outboard Marine Corporation Plant #2
Subject: Excavated soil stockpile left on site.

Orientation: East
Date: January 6, 2006



Photograph No.: 21

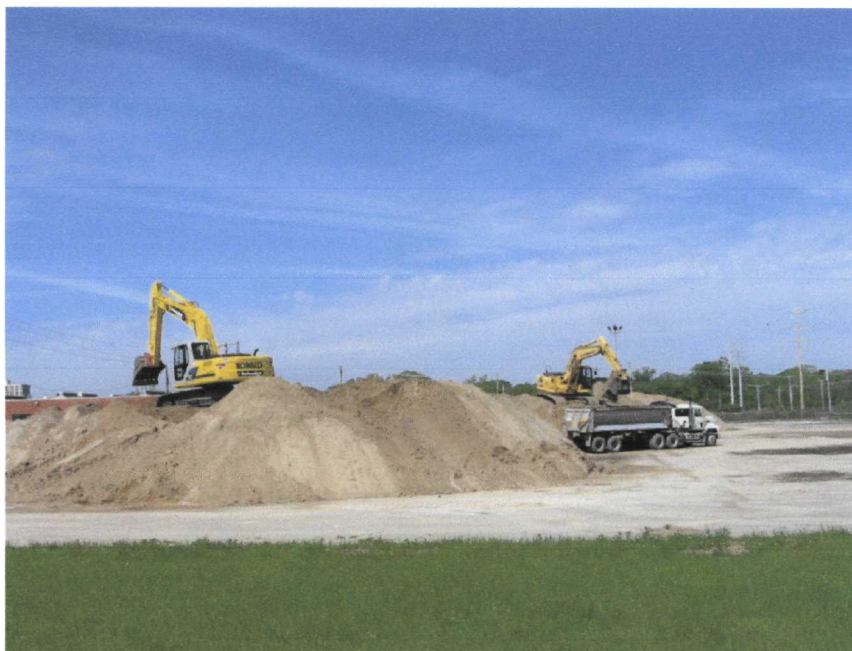
TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Loading soil for transport to landfill.

Orientation: North

Date: May 17, 2006



Photograph No.: 22

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Loading soil for transport to landfill.

Orientation: North

Date: May 17, 2006



Photograph No.: 23

TDD Number: S05-0507-002

Location: Outboard Marine Corporation Plant #2

Subject: Cleaned parking lot surface.

Orientation: North

Date: May 19, 2006



Photograph No.: 24

Orientation:

North

TDD Number: S05-0507-002

Date:

May 19, 2006

Location: Outboard Marine Corporation Plant #2

Subject: Street sweeper cleaning parking lot surface.

APPENDIX B
FIELD NOTES

(Eight Pages)



OMC Waukegan - Field Notes

12/2/05

- 1115 Tetra Tech (Ken Brown) arrived on-site to mark excavation areas. Talked to Jeff Walwark (Waukegan) and he said there is a crew working on-site moving rock wall boulders.
- 1300 Margo Milde arrived on-site to speak with Tetra Tech and briefly walked the site. Tetra Tech showed her the areas to be excavated.
- Only one area to be excavated has endangered Marran Grass present (The area between S-23/39 and S-47). There are a few individual plants, and mostly Little Bluestem. Little Bluestem is a high quality prairie grass, but is not a state-listed species.
- 1430 Tetra Tech completed marking the excavation areas and left the site.

12/8/05

- 1245 Tetra Tech (Ken Brown) met EPA OSC (Ken Theisen) on-site. Ken was looking over South Ditch to figure out how to access heavy equipment.
- 1315 Kevin Adler arrived (EPA RPM) and all of us investigated the trailer left on-site by CH2M Hill. Hill is conducting RI for EPA. The trailer is inside the building and will suit our purposes well.
- 1400 Bob Armstrong arrived (EQM) and we went over the areas to be excavated that was previously marked by Tetra Tech. Margo Milde did not attend the meeting. Bob asked if Tetra Tech could initiate the HASP and send it to EQM for completion. Bob also asked if Tetra Tech could survey in the containment cell wall along its eastern edge to aid excavation. Tetra Tech agreed. Everyone walked the areas to be excavated.
- 1500 Everyone walked the South Ditch area and checked out the trailer again.
- 1530 Everyone offsite and gates locked.

12/14/05

- 0745 Tetra Tech (Ken Brown) arrived on-site. EQM has trailer opened (Bob Armstrong). Equipment has not arrived yet. Gave Bob Armstrong the site plan drawing showing utilities and cost estimate for surveying containment cell wall.
- 0830 City of Waukegan Water Department personnel arrived to mark force main. Crew marked force main with water witching rods.
- 1000 NSSD employee arrived to tell us that the force main belong to the City of Waukegan.

1030 First dump truck arrived.

1330 EQM begins clearing and grubbing.

1330 START off site. EPA and EQM still on-site. Surveyors not returned yet (McClure Engineering).

12/15/05

1115 Tetra Tech START arrived on-site. EPA OSC Theisen was ready to dig out endangered grass plants. The plan is to dig out individual plants by hand, and restore them after excavation is complete. All the Marram grass plants that could be found were dug out and placed in plastic bags.

1230 Tetra Tech and OSC found steel plates so EQM could weld them on the bucket teeth so that topsoil could be scraped off. Soil is being dumped (stockpiled) on the asphalt parking lot north of the building.

1330 Marked area to be excavated 0-2' with yellow color. Next lift will be marked tomorrow.

1645 Tetra Tech and START offsite.

12/16/05

0730 Tetra Tech arrived on-site. EQM begin excavating. Will start to sample contaminated soil.

0800 START collected soil sample. EMS-F-2-01 from north end of North excavation.

0900 Excavator found 8" foremain in North excavation. It is blue PVC.

1100 Kevin Addler arrived on-site. Second excavator has collected topsoil for sandy area where grass was dug up.

1300 Collected soil samples from excavation floor and wells:

<u>Floor Sample</u>	<u>Latitude</u>	<u>Longitude</u>
CSS-WW-3-02	42°22.306	87°48.899
CSS-WW-3-03	42°22.302	87°48.901
CSS-F-4-04	42°22.304	87°48.897
CSS-F-4-05	42°22.302	87°48.898

1500 Gave samples to Test America. EQM digging to 6' bgs in North excavation. EQM is stripping soil from 1' to 4' from the excavation around S-107, S-23, S-47. The soil below 4' bgs will be removed.

1600 EPA OSC off site.

1630 START off site.

12/19 /05

0700 Tetra Tech on-site. Weather was cold. Both dump trucks will not start and only one excavator is running. START preparing to take samples.

0800 Collected soil samples from north excavation from side walls and floor. 10 samples to be sent to lab.

<u>Sample</u>	<u>Latitude</u>	<u>Longitude</u>
CSS-NW-3-06	42.37195	87.81468
CSS-EW-3-07	42.37196	87.81474
CSS-EW-3-08	42.37185	87.81482
CSS-EW-6-09	42.37174	87.81476
CSS-WW-6-10	42.37162	87.81494
CSS-WW-8-11	42.37153	87.81502
CSS-SW-8-12	42.37146	87.81500
CSS-EW-8-13	42.37149	87.81493
CSS-F-6-14		
CSS-F-8-15		

0900 Test America arrived to pick up samples listed above.

1100 Collected composite sample from waste pile from 24 points on the pile (about 1500 cyds). Also, collected 2 samples from the backfill material.

<u>Sample</u>	<u>Latitude</u>	<u>Longitude</u>
EMS-P-0-16		
EMS-P-0-17		
BMS-P-0-18		
BMS-P-0-19		
CSS-F-6-27		
CSS-NW-5-26	42.37127	87.81498
CSS-F-6-25	42.37123	87.81485
CSS-EW-5-24	42.37120	87.81479
CSS-NW-5-23	42.37125	87.81485
CSS-NW-5-21	42.37125	87.81482
CSS-SW-5-20	42.37120	87.81484

1330 Test America picked up waste, backfill, and south excavation samples.

1645 Test America called and said that Friday's samples were hotter than anticipated, so they needed to be rediluted and rerun. Results will come tomorrow morning.

1700 Everyone offsite.

12/20/05

0715 Train at harbor entrance. Everyone on-site at 7:15

0800 Lab results were as follows:

<u>Sample</u>	<u>Amount</u>
EMS-F-2-01	20,200 µg/kg
CSS-WW-3-02	138,000 µg/kg
CSS-WW-3-03	744,000 µg/kg
CSS-F-4-04	14,800 µg/kg
CSS-F-4-05	18,400 µg/kg

0900 EQM excavators working on digging and the concrete and gravel to 2' bgs around S-29.

1100 Showed EQ where to dig in South Ditch. Excavator moving there after lunch.

1300 EQM is putting large pile in South excavation back into the hole. The hole is 6' deep. EQM is also beginning to dig out South Ditch.

1415 Collected samples from South Ditch were as follows:

<u>Sample</u>	<u>Latitude</u>	<u>Longitude</u>
CSS-SD-2-30	42.36829	87.81540
CSS-SD-2-31	42.36834	87.81559
CSS-SD-2-32	42.36838	87.81586
CSS-F-2-28	42.37110	87.81515
CSS-F-2-29	42.37103	87.81515

1500 EQM has completed South Ditch and filling in the southern excavation. Now beginning to dig around.

1430 Delivered following samples to Test America:

CSS-F-2-28
CSS-F-2-29
CSS-SD-2-30
CSS-SD-2-31
CSS-SD-2-32

1530 EQM dump trucks starting maintenance. Excavators working on area around S-23 and piling up the waste stockpile.

1630 Called lab for results.

<u>Sample</u>	<u>Amount</u>
CSS-NW-3-06	13,100 µg/kg
CSS-EW-3-07	54,500 µg/kg

CSS-EW-3-08	765,000 µg/kg
CSS-EW-6-09	4,670 µg/kg
CSS-WW-6-10	444 µg/kg
CSS-WW-8-11	51.6 µg/kg
CSS-SW-8-12	63,400 µg/kg
CSS-EW-8-13	1,060 µg/kg
CSS-F-6-14	1,700 µg/kg
CSS-F-8-15	25.7 µg/kg

1700 Called OSC Theisen and discussed where to further excavate in the North excavation. START offsite.

12/21/05

0700 START and EQM on-site. Based on lab results, EQM is digging more from south edge of North excavation (10 feet more). Also, they will dig more from NE corner of North excavation.

0800 EPA OSC on-site.

0830 Called lab for results:

<u>Sample</u>	<u>Amount</u>
EMS-P-0-16	440,000 µg/kg
EMS-P-0-17	543,000 µg/kg
BMS-P-0-18	72.4 µg/kg
BMS-P-0-19	ND
CSS-SW-5-20	203 µg/kg
CSS-NW-5-21	108 µg/kg
CSS-NW-5-23	593 µg/kg
CSS-EW-5-24	276 µg/kg
CSS-F-6-25	3,500 µg/kg
CSS-NW-5-26	48,200 µg/kg
CSS-F-6-27	32,200 µg/kg

1000 Collected sample from gray pile that Burke has built in South excavation.
EMS-BP-0-33

1330 Collected composite sample from waste pile.
EMS-P-0-34 202,000 (wet weight)

1340 Collected confirmation samples from South excavation.

<u>Sample</u>	<u>Latitude</u>	<u>Longitude</u>
CSS-EW-7-35	42.37111	87.81485
CSS-F-8-36		
CSS-SW-7-37	42.37106	87.81494

1500 Test America picked up samples for the day. Samples 33 through 37 were

collected.

1600 START off site.

1800 Test America called with results.

<u>Sample</u>	<u>Amount</u>
CSS-F-2-28	1,680 µg/kg
CSS-F-2-29	4,010 µg/kg

12/22/05

0815 START, EQM and EPA arrived on-site.

0900 EQM is continuing to fill in South excavation. EQM is also removing another 10' from the NE corner of North excavation. This well had PCB concentrations of 54.5 and 765 ppm.

1000 Collected 2 samples from east well of North excavation

<u>Sample</u>	<u>Latitude</u>	<u>Longitude</u>
CSS-EW-3-38	42.37179	87.81488
CSS-EW-3-39	42.37174	87.81490

1030 CSC and RM are collecting 3 composite samples from different areas of the waste pile. (Gray ring, outer dark ring, inner heaped pile)

EMS-GR-0-4- (Gray ring)
EMS-ODR-0-41 (Outer dark ring)
EMS-IHP-0-42 (Inner heaped pile)

1100 Submitted samples to Great Lakes driver.

1300 Prepared samples to ship to STL. These will be split samples of 40, 41 and 42. Remainder of composite samples stored in bags.

1530 Everyone offsite. North excavation filled and South excavation about half filled. More backfill will be arriving tomorrow.

1630 Bought cooler to ship samples. Fedex box on Lewis Avenue. Too small to take cooler, so had to take it to take it to the Fedex office near Candlewood Suites.

12/23/05

0700 START, and EQM arrived on-site and beginning to backfill South excavation with sand.

0900 Lowesen Marine brought over approximately 4 cyds of soil and put it on waste pile.

0930 Onyx arrived to pick up roll off box and empty it on waste pile about 20 cyds.
1000 EQM finished back filling with sand. Sand is almost gone and South excavation still needs 3-4 feet to get back to grade.
1200 EQM, START and EPA offsite.

12/27/05

1600 START received lab results at home by phone from Test America. Sample results were 3 composite samples collected from waste pile on Dec 22, 2005.

EMS-GR-0-40
EMS-ODR-0-41
EMS-IHP-0-42

1/4/06

0730 START arrived on-site. EQM already on-site and continuing work. EQM had arrived and resumed backfilling and excavating yesterday Jan 3, 2006. EQM is receiving backfill sand and is continuing to backfill South excavation to original grade. The topsoil will then be replaced.
0900 EQM continuing to backfill South excavation with sand. Trucks are delivering clean sand. End Loader is on-site to clean up the pile.
1030 START collected clean sand samples. EQM had excavated extra soil from the north excavation yesterday. They excavated an extra 6' to the east, 4' deep and about 100' long.
1530 Ken arrived on-site.
1600 START off site.

1/5/06

0730 START onsite. EQM and EPA already onsite. CH2M Hill onsite and doing work. EQM is bringing sand on-site for backfill and is expecting several loads of 70 % / 30 % mix topsoil.
0900 Topsoil sand mix is beginning to arrive. EQM continuing to contour excavation area. EQM also piling the excavated soils stockpile and cleaning up parking lot surface. About 10,000 tons excavated soil.
1100 CH2M Hill offsite after pumping out water from tanks.
1330 START collected composite soil samples for PCB analysis. Samples consist of 2:1 and 1:1 mix of excavated soil to clean sand.

EMS-1:1-0-43 (1:1 mix)
EMS-2:1-0-44 (2:1 mix)

1530 EQM spreading stockpiled topsoil across South excavation to a depth of about 4-6".

1700 START and everyone offsite.

1/6/06

0730 START onsite. EQM has finished dressing up the waste pile and spreading the topsoil mix on the excavation areas. EQM will begin deconning equipments.

0930 EQM continuing to spread topsoil mix on excavated areas. EPA and START posted warning signs around the soil stockpile.

1300 START and EPA OSC replant Marram Grass plants that were removed from the south excavation before digging started. Plants were spread out across the area at 5-6 foot spacing.

1400 EQM beginning to decon excavators and dump trucks.

1500 The City of Waukegan sent over a street sweeper to clean up the concrete driveway between the excavation areas and the stockpile. The street sweeper also cleaned some of the asphalt parking lot.

1630 Everyone off site.

APPENDIX C
VALIDATED ANALYTICAL RESULTS

(Eight Reports)



MEMORANDUM

Date: January 31, 2006

To: Ken Brown, Project Manager, Tetra Tech EM Inc. (Tetra Tech)
Superfund Technical Assessment and Response Team (START) for Region 5

From: Nancy McDonald, Chemist, Tetra Tech START for Region 5

Subject: Data Validation for
Outboard Marine Company (OMC) Plant #2 Site
Waukegan, Illinois
Analytical Technical Direction Document (TDD) No. S05-0507-003
Project TDD No. S05-0507-002

TestAmerica Analytical Testing Corporation (TestAmerica), Buffalo Grove, Illinois
Work Orders No. B512237, B512245, B512255, B512272, B512287, B512295, and B601076
Polychlorinated Biphenyl (PCB) Analysis of 43 Soil Samples

1.0 INTRODUCTION

The Tetra Tech START for Region 5 validated PCB analytical data for 43 soil samples collected on December 16, 2005, through January 5, 2006, at the OMC Plant #2 site in Waukegan, Illinois, during soil evacuation activities. All samples were analyzed for PCBs under the above-referenced work orders by TestAmerica using U.S. Environmental Protection Agency (U.S. EPA) SW-846 Method 8082.

The data were validated in general accordance with U.S. EPA's "Contract Laboratory Program National Functional Guidelines for Organic Data Review" dated October 1999. Organic data validation usually consists of a review of the following quality control (QC) parameters: holding times, an instrument performance check, initial and continuing calibrations, blank results, surrogate recovery results, matrix spike and matrix spike duplicate (MS/MSD) results, laboratory control sample (LCS) results, internal standard (IS) response, and target compound identification and quantitation. Only summary data packages

were evaluated; therefore, instrument performance check, initial and continuing calibration, and target compound identification and quantitation results were not reviewed.

Section 2.0 discusses the results of the organic data validation, and Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains TestAmerica's summary of the analytical results as well as START's handwritten data qualifications where warranted.

2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below in terms of the QC parameters reviewed. The data qualifier listed below was applied to the sample analytical results where warranted (see the attachment).

- J - The analyte was detected. The reported numerical value is considered estimated for QC reasons.

2.1 HOLDING TIMES

The holding time limits for PCB analysis of soil samples are 14 days to extraction and 40 days from extraction to analysis. The samples were extracted and analyzed within the holding time limits.

2.2 INSTRUMENT PERFORMANCE CHECK

The instrument performance check results were not included in the data packages. No qualifications are required for this data gap.

2.3 INITIAL AND CONTINUING CALIBRATIONS

The initial and continuing calibration results were not included in the data packages. No qualifications are required for this data gap.

2.4 BLANK RESULTS

The laboratory method blanks did not contain PCBs at detectable concentrations.

2.5 SURROGATE RECOVERY RESULTS

All surrogate recovery results were within QC limits with the following exceptions. Surrogates were diluted out in samples CSS-WW-3-02, CSS-WW-3-03, CSS-EW-08, EMS-P-0-16, and EMS-P-0-17. No qualifications are required for these data gaps.

2.6 MS/MSD RESULTS

The MS and MSD analyses were performed on samples CSS-EW-6-09, BMS-P-0-19, and EMS-ODR-0-41. For the MS/MSD analyses for samples CSS-EW-6-09 and EMS-ODR-0-41, recoveries for Aroclors 1016 and 1260 could not be reliably determined because of interferences from Aroclor 1248 in the unspiked samples. The relative percent differences (RPD) between the MS and MSD results of 51.2 percent in sample EMS-ODR-0-41 exceeded QC limits, implying heterogeneity in the sample; therefore, the detected PCB result for sample EMS-ODR-0-41 was flagged "J" to indicate that the concentration is considered estimated. This same heterogeneity may also apply to the other samples.

2.7 LCS RESULTS

An LCS was analyzed with each analytical batch. All accuracy results were within QC limits.

2.8 IS RESPONSE

ISs are not required for PCB analyses.

2.9 TARGET COMPOUND IDENTIFICATION AND QUANTITATION

Because of the high concentrations of PCBs and non-target analytes in all samples, TestAmerica analyzed the samples at 10- to 200,000-fold dilutions to bring the results within calibration range. Raw data were not included in the data packages; therefore, target compound identification and quantitation could not be reviewed. No qualifications are required for this data gap.

3.0 OVERALL ASSESSMENT OF DATA

Overall, the sample analytical data generated by TestAmerica are acceptable for use as qualified. Only summary data packages were evaluated; therefore, instrument performance check, initial and continuing calibration, and target compound identification and quantitation results were not reviewed.

20 December 2005

Lab ID: B512237

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 12/16/05. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

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Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512237
Reported: 12/20/05 11:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EMS-F-2-01	B512237-01	Soil	12/16/05 08:00	12/16/05 15:50
CSS-WW-3-02	B512237-02	Soil	12/16/05 13:15	12/16/05 15:50
CSS-WW-3-03	B512237-03	Soil	12/16/05 13:20	12/16/05 15:50
CSS-F-4-04	B512237-04	Soil	12/16/05 13:20	12/16/05 15:50
CSS-F-4-05	B512237-05	Soil	12/16/05 13:25	12/16/05 15:50

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:



Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512237
Reported: 12/20/05 11:33

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-F-2-01 (B512237-01) Soil Sampled: 12/16/05 08:00 Received: 12/16/05 15:50									
PCB-1016	ND	2930	ug/kg dry	1000	5120310	12/16/05	12/19/05	EPA 8082	
PCB-1221	ND	2930	"	"	"	"	"	"	
PCB-1232	ND	2930	"	"	"	"	"	"	
PCB-1242	ND	2930	"	"	"	"	"	"	
PCB-1248	20200	14700	"	5000	"	"	12/19/05	"	
PCB-1254	ND	2930	"	1000	"	"	12/19/05	"	
PCB-1260	ND	2930	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		81.7 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		95.0 %	10-127	"	"	"	"	"	

CSS-WW-3-02 (B512237-02) Soil Sampled: 12/16/05 13:15 Received: 12/16/05 15:50									
PCB-1016	ND	15200	ug/kg dry	5000	5120310	12/16/05	12/19/05	EPA 8082	
PCB-1221	ND	15200	"	"	"	"	"	"	
PCB-1232	ND	15200	"	"	"	"	"	"	
PCB-1242	ND	15200	"	"	"	"	"	"	
PCB-1248	138000	122000	"	40000	"	"	12/19/05	"	
PCB-1254	ND	15200	"	5000	"	"	12/19/05	"	
PCB-1260	ND	15200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		75.0 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		260 %	10-127	"	"	"	"	"	H

CSS-WW-3-03 (B512237-03) Soil Sampled: 12/16/05 13:20 Received: 12/16/05 15:50									
PCB-1016	ND	15500	ug/kg dry	5000	5120310	12/16/05	12/19/05	EPA 8082	
PCB-1221	ND	15500	"	"	"	"	"	"	
PCB-1232	ND	15500	"	"	"	"	"	"	
PCB-1242	ND	15500	"	"	"	"	"	"	
PCB-1248	744000	155000	"	50000	"	"	12/19/05	"	
PCB-1254	ND	15500	"	5000	"	"	12/19/05	"	
PCB-1260	ND	15500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		84.0 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		150 %	10-127	"	"	"	"	"	H

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512237
Reported: 12/20/05 11:33

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-F-4-04 (B512237-04) Soil Sampled: 12/16/05 13:20 Received: 12/16/05 15:50									
PCB-1016	ND	6940	ug/kg dry	2000	5120310	12/16/05	12/19/05	EPA 8082	
PCB-1221	ND	6940	"	"	"	"	"	"	
PCB-1232	ND	6940	"	"	"	"	"	"	
PCB-1242	ND	6940	"	"	"	"	"	"	
PCB-1248	14800	6940	"	"	"	"	"	"	
PCB-1254	ND	6940	"	"	"	"	"	"	
PCB-1260	ND	6940	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

71.9 %

10-121

"

"

"

"

Surrogate: Decachlorobiphenyl

95.8 %

10-127

"

"

"

"

CSS-F-4-05 (B512237-05) Soil Sampled: 12/16/05 13:25 Received: 12/16/05 15:50

PCB-1016	ND	6410	ug/kg dry	2000	5120310	12/16/05	12/19/05	EPA 8082	
PCB-1221	ND	6410	"	"	"	"	"	"	
PCB-1232	ND	6410	"	"	"	"	"	"	
PCB-1242	ND	6410	"	"	"	"	"	"	
PCB-1248	18400	6410	"	"	"	"	"	"	
CB-1254	ND	6410	"	"	"	"	"	"	
pCB-1260	ND	6410	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

81.2 %

10-121

"

"

"

"

Surrogate: Decachlorobiphenyl

97.7 %

10-127

"

"

"

"

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512237
Reported: 12/20/05 11:33

Percent Solids TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-F-2-01 (B512237-01) Soil Sampled: 12/16/05 08:00 Received: 12/16/05 15:50									
% Solids	85.3	0.200	%	1	5120340	12/16/05	12/19/05	EPA 5035 7.5	
CSS-WW-3-02 (B512237-02) Soil Sampled: 12/16/05 13:15 Received: 12/16/05 15:50									
% Solids	82.2	0.200	%	1	5120340	12/16/05	12/19/05	EPA 5035 7.5	
CSS-WW-3-03 (B512237-03) Soil Sampled: 12/16/05 13:20 Received: 12/16/05 15:50									
% Solids	80.5	0.200	%	1	5120340	12/16/05	12/19/05	EPA 5035 7.5	
CSS-F-4-04 (B512237-04) Soil Sampled: 12/16/05 13:20 Received: 12/16/05 15:50									
% Solids	72.0	0.200	%	1	5120340	12/16/05	12/19/05	EPA 5035 7.5	
CSS-F-4-05 (B512237-05) Soil Sampled: 12/16/05 13:25 Received: 12/16/05 15:50									
% Solids	78.0	0.200	%	1	5120340	12/16/05	12/19/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512237
Reported: 12/20/05 11:33

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120310 - EPA 3550B

Blank (5120310-BLK1)

Prepared & Analyzed: 12/16/05

PCB-1016	ND	21.8	ug/kg wet							
PCB-1221	ND	21.8	"							
PCB-1232	ND	21.8	"							
PCB-1242	ND	21.8	"							
PCB-1248	ND	21.8	"							
PCB-1254	ND	21.8	"							
PCB-1260	ND	21.8	"							
Surrogate: Tetrachloro-meta-xylene	22.2		"	34.2		64.9	10-121			
Surrogate: Decachlorobiphenyl	24.2		"	34.2		70.8	10-127			

LCS (5120310-BS1)

Prepared & Analyzed: 12/16/05

PCB-1016	68.8	25.0	ug/kg wet	84.3		81.6	14.4-123			
PCB-1260	57.7	25.0	"	84.3		68.4	12.2-132			
Surrogate: Tetrachloro-meta-xylene	21.9		"	33.7		65.0	10-121			
Surrogate: Decachlorobiphenyl	21.8		"	33.7		64.7	10-127			

Matrix Spike (5120310-MS1)

Source: B512196-05

Prepared & Analyzed: 12/16/05

PCB-1016	58.3	20.2	ug/kg wet	84.2	ND	69.2	10-112			
PCB-1260	54.3	20.2	"	84.2	5.71	57.7	10-124			
Surrogate: Tetrachloro-meta-xylene	16.8		"	33.7		49.9	10-121			
Surrogate: Decachlorobiphenyl	17.4		"	33.7		51.6	10-127			

Matrix Spike Dup (5120310-MSD1)

Source: B512196-05

Prepared & Analyzed: 12/16/05

PCB-1016	54.7	25.0	ug/kg wet	84.5	ND	64.7	10-112	6.37	40	
PCB-1260	55.8	25.0	"	84.5	5.71	59.3	10-124	2.72	40	
Surrogate: Tetrachloro-meta-xylene	17.4		"	33.8		51.5	10-121			
Surrogate: Decachlorobiphenyl	17.2		"	33.8		50.9	10-127			

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512237
Reported: 12/20/05 11:33

Percent Solids - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120340 - General Prep										
Blank (5120340-BLK1)										
					Prepared: 12/16/05 Analyzed: 12/19/05					
% Solids	ND	0.200	%							
Duplicate (5120340-DUP1)										
					Source: B512237-01 Prepared: 12/16/05 Analyzed: 12/19/05					
% Solids	86.7	0.200	%		85.3			1.63	20	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Andy Johnson, Project Manager

EQM

1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan

Project Number: N/A

Project Manager: Jackie Doan

Lab ID: B512237

Reported: 12/20/05 11:33

Notes and Definitions

- O15 One or more surrogate recoveries were above the laboratory established control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson, Project Manager



Environmental Quality Management, Inc.

Chain of Custody Record

COC Tracking: **EQ-11173**[illegible]

Distribution: White - Accompanies Shipment Pink - Project Files Yellow - Laboratory File

Distribution: White - A
100 temp. -- 40
100 temp. -- 40

20 December 2005

Lab ID: B512245

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 12/19/05. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

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Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CSS-NW-3-06	B512245-01	Soil	12/19/05 08:00	12/19/05 10:35
CSS-EW-3-07	B512245-02	Soil	12/19/05 08:05	12/19/05 10:35
CSS-EW-3-08	B512245-03	Soil	12/19/05 08:05	12/19/05 10:35
CSS-EW-6-09	B512245-04	Soil	12/19/05 08:10	12/19/05 10:35
CSS-WW-6-10	B512245-05	Soil	12/19/05 08:30	12/19/05 10:35
CSS-WW-8-11	B512245-06	Soil	12/19/05 08:50	12/19/05 10:35
CSS-SW-8-12	B512245-07	Soil	12/19/05 08:50	12/19/05 10:35
CSS-EW-8-13	B512245-08	Soil	12/19/05 08:40	12/19/05 10:35
CSS-F-6-14	B512245-09	Soil	12/19/05 08:30	12/19/05 10:35
CSS-F-8-15	B512245-10	Soil	12/19/05 08:50	12/19/05 10:35

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-NW-3-06 (B512245-01) Soil Sampled: 12/19/05 08:00 Received: 12/19/05 10:35									QC
PCB-1016	ND	118	ug/kg dry	50	5120358	12/19/05	12/19/05	EPA 8082	
PCB-1221	ND	118	"	"	"	"	"	"	
PCB-1232	ND	118	"	"	"	"	"	"	
PCB-1242	ND	118	"	"	"	"	"	"	
PCB-1248	13100	4710	"	2000	"	"	12/20/05	"	
PCB-1254	ND	118	"	50	"	"	12/19/05	"	
PCB-1260	ND	118	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		66.9 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		64.8 %	10-127	"	"	"	"	"	
CSS-EW-3-07 (B512245-02) Soil Sampled: 12/19/05 08:05 Received: 12/19/05 10:35									QC
PCB-1016	ND	152	ug/kg dry	50	5120358	12/19/05	12/19/05	EPA 8082	
PCB-1221	ND	152	"	"	"	"	"	"	
PCB-1232	ND	152	"	"	"	"	"	"	
PCB-1242	ND	152	"	"	"	"	"	"	
PCB-1248	54500	15200	"	5000	"	"	12/20/05	"	
PCB-1254	ND	152	"	50	"	"	12/19/05	"	
PCB-1260	ND	152	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70.9 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		74.9 %	10-127	"	"	"	"	"	
CSS-EW-3-08 (B512245-03) Soil Sampled: 12/19/05 08:05 Received: 12/19/05 10:35									O15, QC
PCB-1016	ND	133	ug/kg dry	50	5120358	12/19/05	12/19/05	EPA 8082	
PCB-1221	ND	133	"	"	"	"	"	"	
PCB-1232	ND	133	"	"	"	"	"	"	
PCB-1242	ND	133	"	"	"	"	"	"	
PCB-1248	765000	213000	"	80000	"	"	12/20/05	"	
PCB-1254	ND	133	"	50	"	"	12/19/05	"	
PCB-1260	ND	133	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		63.6 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		130 %	10-127	"	"	"	"	"	H

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-EW-6-09 (B512245-04) Soil Sampled: 12/19/05 08:10 Received: 12/19/05 10:35 QC									
PCB-1016	ND	137	ug/kg dry	50	5120358	12/19/05	12/19/05	EPA 8082	
PCB-1221	ND	137	"	"	"	"	"	"	
PCB-1232	ND	137	"	"	"	"	"	"	
PCB-1242	ND	137	"	"	"	"	"	"	
PCB-1248	4670	1370	"	500	"	"	12/20/05	"	
PCB-1254	ND	137	"	50	"	"	12/19/05	"	
PCB-1260	ND	137	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

70.4 %

10-121

"

"

"

"

Surrogate: Decachlorobiphenyl

86.9 %

10-127

"

"

"

"

CSS-WW-6-10 (B512245-05) Soil Sampled: 12/19/05 08:30 Received: 12/19/05 10:35

QC

PCB-1016	ND	133	ug/kg dry	50	5120358	12/19/05	12/20/05	EPA 8082	
PCB-1221	ND	133	"	"	"	"	"	"	
PCB-1232	ND	133	"	"	"	"	"	"	
PCB-1242	ND	133	"	"	"	"	"	"	
PCB-1248	444	133	"	"	"	"	"	"	
PCB-1254	ND	133	"	"	"	"	"	"	
PCB-1260	ND	133	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

61.8 %

10-121

"

"

"

"

Surrogate: Decachlorobiphenyl

75.4 %

10-127

"

"

"

"

CSS-WW-8-11 (B512245-06) Soil Sampled: 12/19/05 08:50 Received: 12/19/05 10:35

QC

PCB-1016	ND	31.1	ug/kg dry	10	5120358	12/19/05	12/20/05	EPA 8082	
PCB-1221	ND	31.1	"	"	"	"	"	"	
PCB-1232	ND	31.1	"	"	"	"	"	"	
PCB-1242	ND	31.1	"	"	"	"	"	"	
PCB-1248	51.6	31.1	"	"	"	"	"	"	
PCB-1254	ND	31.1	"	"	"	"	"	"	
PCB-1260	ND	31.1	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

56.2 %

10-121

"

"

"

"

Surrogate: Decachlorobiphenyl

76.9 %

10-127

"

"

"

"

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-SW-8-12 (B512245-07) Soil Sampled: 12/19/05 08:50 Received: 12/19/05 10:35 QC									
PCB-1016	ND	144	ug/kg dry	50	5120358	12/19/05	12/19/05	EPA 8082	
PCB-1221	ND	144	"	"	"	"	"	"	
PCB-1232	ND	144	"	"	"	"	"	"	
PCB-1242	ND	144	"	"	"	"	"	"	
PCB-1248	63400	28800	"	10000	"	"	12/20/05	"	
PCB-1254	ND	144	"	50	"	"	12/19/05	"	
PCB-1260	ND	144	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		72.4 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		71.7 %	10-127	"	"	"	"	"	

CSS-EW-8-13 (B512245-08) Soil Sampled: 12/19/05 08:40 Received: 12/19/05 10:35 QC									
PCB-1016	ND	158	ug/kg dry	50	5120358	12/19/05	12/19/05	EPA 8082	
PCB-1221	ND	158	"	"	"	"	"	"	
PCB-1232	ND	158	"	"	"	"	"	"	
PCB-1242	ND	158	"	"	"	"	"	"	
PCB-1248	1060	316	"	100	"	"	12/20/05	"	
CB-1254	ND	158	"	50	"	"	12/19/05	"	
PCB-1260	ND	158	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.8 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		76.0 %	10-127	"	"	"	"	"	

CSS-F-6-14 (B512245-09) Soil Sampled: 12/19/05 08:30 Received: 12/19/05 10:35 QC									
PCB-1016	ND	138	ug/kg dry	50	5120358	12/19/05	12/19/05	EPA 8082	
PCB-1221	ND	138	"	"	"	"	"	"	
PCB-1232	ND	138	"	"	"	"	"	"	
PCB-1242	ND	138	"	"	"	"	"	"	
PCB-1248	1700	554	"	200	"	"	12/20/05	"	
PCB-1254	ND	138	"	50	"	"	12/19/05	"	
PCB-1260	ND	138	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.8 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		74.5 %	10-127	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-F-8-15 (B512245-10) Soil Sampled: 12/19/05 08:50 Received: 12/19/05 10:35									QC
PCB-1016	ND	24.9	ug/kg dry	10	5120358	12/19/05	12/20/05	EPA 8082	
PCB-1221	ND	24.9	"	"	"	"	"	"	
PCB-1232	ND	24.9	"	"	"	"	"	"	
PCB-1242	ND	24.9	"	"	"	"	"	"	
PCB-1248	25.7	24.9	"	"	"	"	"	"	
PCB-1254	ND	24.9	"	"	"	"	"	"	
PCB-1260	ND	24.9	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53.0 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		68.9 %	10-127	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-NW-3-06 (B512245-01) Soil Sampled: 12/19/05 08:00 Received: 12/19/05 10:35									
% Solids	86.7	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
CSS-EW-3-07 (B512245-02) Soil Sampled: 12/19/05 08:05 Received: 12/19/05 10:35									
% Solids	82.3	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
CSS-EW-3-08 (B512245-03) Soil Sampled: 12/19/05 08:05 Received: 12/19/05 10:35									
% Solids	94.1	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
CSS-EW-6-09 (B512245-04) Soil Sampled: 12/19/05 08:10 Received: 12/19/05 10:35									
% Solids	81.3	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
CSS-WW-6-10 (B512245-05) Soil Sampled: 12/19/05 08:30 Received: 12/19/05 10:35									
% Solids	79.5	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
SS-WW-8-11 (B512245-06) Soil Sampled: 12/19/05 08:50 Received: 12/19/05 10:35									
% Solids	80.3	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
CSS-SW-8-12 (B512245-07) Soil Sampled: 12/19/05 08:50 Received: 12/19/05 10:35									
% Solids	78.9	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
CSS-EW-8-13 (B512245-08) Soil Sampled: 12/19/05 08:40 Received: 12/19/05 10:35									
% Solids	79.1	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	
CSS-F-6-14 (B512245-09) Soil Sampled: 12/19/05 08:30 Received: 12/19/05 10:35									
% Solids	81.6	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-F-8-15 (B512245-10) Soil Sampled: 12/19/05 08:50 Received: 12/19/05 10:35									
% Solids	78.3	0.200	%	1	5120352	12/19/05	12/20/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5120358 - EPA 3550B

Blank (5120358-BLK1)

Prepared: 12/19/05 Analyzed: 12/20/05

PCB-1016	ND	22.1	ug/kg wet							
PCB-1221	ND	22.1	"							
PCB-1232	ND	22.1	"							
PCB-1242	ND	22.1	"							
PCB-1248	ND	22.1	"							
PCB-1254	ND	22.1	"							
PCB-1260	ND	22.1	"							
Surrogate: Tetrachloro-meta-xylene	26.4		"	32.8		80.5	10-121			
Surrogate: Decachlorobiphenyl	31.9		"	32.8		97.3	10-127			

LCS (5120358-BS1)

Prepared & Analyzed: 12/19/05

PCB-1016	82.4	25.0	ug/kg wet	84.3		97.7	14.4-123			
PCB-1260	77.7	25.0	"	84.3		92.2	12.2-132			
Surrogate: Tetrachloro-meta-xylene	24.7		"	33.7		73.3	10-121			
Surrogate: Decachlorobiphenyl	29.5		"	33.7		87.5	10-127			

Matrix Spike (5120358-MS1)

Source: B512245-04

Prepared: 12/19/05 Analyzed: 12/20/05

PCB-1016	720	262	ug/kg dry	103	ND	699	10-112			H
PCB-1260	226	26.2	"	103	ND	219	10-124			H
Surrogate: Tetrachloro-meta-xylene	31.7		"	41.0		77.3	10-121			
Surrogate: Decachlorobiphenyl	34.4		"	41.0		83.9	10-127			

Matrix Spike Dup (5120358-MSD1)

Source: B512245-04

Prepared: 12/19/05 Analyzed: 12/20/05

PCB-1016	866	308	ug/kg dry	103	ND	841	10-112	18.4	40	H
PCB-1260	271	30.8	"	103	ND	263	10-124	18.1	40	H
Surrogate: Tetrachloro-meta-xylene	37.4		"	41.0		91.2	10-121			
Surrogate: Decachlorobiphenyl	42.6		"	41.0		104	10-127			

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Percent Solids - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5120352 - General Prep									
Blank (5120352-BLK1)					Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	ND	0.200	%						
Blank (5120352-BLK2)					Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	ND	0.200	%						
Duplicate (5120352-DUP1)					Source: B512236-01 Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	81.2	0.200	%		81.7		0.614	20	
Duplicate (5120352-DUP2)					Source: B512236-02 Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	84.2	0.200	%		84.5		0.356	20	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: N/A
Project Manager: Jackie Doan

Lab ID: B512245
Reported: 12/20/05 16:14

Notes and Definitions

- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- O15 One or more surrogate recoveries were above the laboratory established control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager



GREAT
LAKES
ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

140 E. 7th Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: <u>EQM</u>		Bill To: <u>Scene</u>		TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.	
Address: <u>1800 Carillon Blvd</u>		Address:		<input type="checkbox"/> YES - TAT is critical <input type="checkbox"/> NO - TAT is not critical	
City/State: <u>Cincinnati OH 45240</u>		State & Program: <u>USEPA</u>		Received at laboratory: <input type="checkbox"/> ambient <input checked="" type="checkbox"/> ice	
Report to: <u>Jedediah Dean</u>		Phone #: (513) 825-7500		Delivery Method: <input type="checkbox"/> Client <input type="checkbox"/> Shipped <input type="checkbox"/> Courier	
E-mail: <u>Jedediah@qla.com</u>		Fax #: ()		Pkg Temp: <u>12/19/05</u> Lab Temp: <u>12/19/05</u>	
Project Name: <u>OMC Plant #2</u>		# of Bottles Preservative Used		THIS SECTION FOR LAB USE ONLY	
Project #/PO#: <u>Ken Brown</u>		MeOH HCl HNO3 H2SO4 NaOH NONE		SAMPLE CONTROL	
Sampler: <u>Ken Brown</u>		SAMPLE MATRIX		CRACKED BROKEN	
FIELD ID, LOCATION		TIME COLLECTED		LABORATORY ID NUMBER	
1	CSS-NW-3-06	12/19/05	800	Soil	24-48 TAT
2	CSS-EW-3-07	12/19/05	805	Soil	-02
3	CSS-EW-3-08	12/19/05	805	Soil	-03
4	CSS-EW-6-09	12/19/05	810	Soil	-04
5	CSS-WW-6-10	12/19/05	830	Soil	-05
6	CSS-WW-8-11	12/19/05	850	Soil	-06
7	CSS-SW-8-12	12/19/05	850	Soil	-07
8	CSS-EW-8-13	12/19/05	840	Soil	-08
9	CSS-F-6-14	12/19/05	830	Soil	-09
10	CSS-F-8-15	12/19/05	850	Soil	-10
RELINQUISHED <u>Ken Brown</u> 12/19/05		RECEIVED <u>Ken Brown</u> 12/19/05		RECEIVED 12/19/05	
RELINQUISHED		RECEIVED		RECEIVED	

COMMENTS: Please call preliminary results to Ken Brown at (262) 510-1667

22 December 2005

Lab ID: B512255

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 12/19/05. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Andy Johnson.

Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EMS-P-0-16	B512255-01	Soil	12/19/05 11:00	12/19/05 15:19
EMS-P-0-17	B512255-02	Soil	12/19/05 11:00	12/19/05 15:19
BMS-P-0-18	B512255-03	Soil	12/19/05 11:15	12/19/05 15:19
BMS-P-0-19	B512255-04	Soil	12/19/05 11:15	12/19/05 15:19
CSS-SW-5-20	B512255-05	Soil	12/19/05 13:15	12/19/05 15:19
CSS-NW-5-21	B512255-06	Soil	12/19/05 13:00	12/19/05 15:19
CSS-NW-5-23	B512255-07	Soil	12/19/05 13:00	12/19/05 15:19
CSS-EW-5-24	B512255-08	Soil	12/19/05 13:10	12/19/05 15:19
CSS-F-6-25	B512255-09	Soil	12/19/05 13:15	12/19/05 15:19
CSS-NW-5-26	B512255-10	Soil	12/19/05 13:30	12/19/05 15:19
CSS-F-6-27	B512255-11	Soil	12/19/05 13:30	12/19/05 15:19

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:



Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-P-0-16 (B512255-01) Soil Sampled: 12/19/05 11:00 Received: 12/19/05 15:19 O15									
PCB-1016	ND	140	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	140	"	"	"	"	"	"	
PCB-1232	ND	140	"	"	"	"	"	"	
PCB-1242	ND	140	"	"	"	"	"	"	
PCB-1248	440000	112000	"	40000	"	"	12/21/05	"	
PCB-1254	ND	140	"	50	"	"	12/20/05	"	
PCB-1260	ND	140	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>									
		60.0 %	10-121	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>									
		174 %	10-127	"	"	"	"	"	H
EMS-P-0-17 (B512255-02) Soil Sampled: 12/19/05 11:00 Received: 12/19/05 15:19 O15									
PCB-1016	ND	139	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	139	"	"	"	"	"	"	
PCB-1232	ND	139	"	"	"	"	"	"	
PCB-1242	ND	139	"	"	"	"	"	"	
PCB-1248	543000	139000	"	50000	"	"	12/21/05	"	
PCB-1254	ND	139	"	50	"	"	12/20/05	"	
PCB-1260	ND	139	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>									
		59.3 %	10-121	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>									
		165 %	10-127	"	"	"	"	"	H
BMS-P-0-18 (B512255-03) Soil Sampled: 12/19/05 11:15 Received: 12/19/05 15:19									
PCB-1016	ND	27.2	ug/kg dry	10	5120374	12/20/05	12/21/05	EPA 8082	
PCB-1221	ND	27.2	"	"	"	"	"	"	
PCB-1232	ND	27.2	"	"	"	"	"	"	
PCB-1242	ND	27.2	"	"	"	"	"	"	
PCB-1248	72.4	27.2	"	"	"	"	"	"	
PCB-1254	ND	27.2	"	"	"	"	"	"	
PCB-1260	ND	27.2	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>									
		65.4 %	10-121	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>									
		77.0 %	10-127	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BMS-P-0-19 (B512255-04) Soil Sampled: 12/19/05 11:15 Received: 12/19/05 15:19									
PCB-1016	ND	26.4	ug/kg dry	10	5120374	12/20/05	12/21/05	EPA 8082	
PCB-1221	ND	26.4	"	"	"	"	"	"	
PCB-1232	ND	26.4	"	"	"	"	"	"	
PCB-1242	ND	26.4	"	"	"	"	"	"	
PCB-1248	ND	26.4	"	"	"	"	"	"	
PCB-1254	ND	26.4	"	"	"	"	"	"	
PCB-1260	ND	26.4	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

63.9 % 10-121

Surrogate: Decachlorobiphenyl

77.8 % 10-127

CSS-SW-5-20 (B512255-05) Soil Sampled: 12/19/05 13:15 Received: 12/19/05 15:19

PCB-1016	ND	161	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	161	"	"	"	"	"	"	
PCB-1232	ND	161	"	"	"	"	"	"	
PCB-1242	ND	161	"	"	"	"	"	"	
PCB-1248	203	161	"	"	"	"	"	"	
PCB-1254	ND	161	"	"	"	"	"	"	
PCB-1260	ND	161	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

75.1 % 10-121

Surrogate: Decachlorobiphenyl

83.7 % 10-127

CSS-NW-5-21 (B512255-06) Soil Sampled: 12/19/05 13:00 Received: 12/19/05 15:19

PCB-1016	ND	31.6	ug/kg dry	10	5120374	12/20/05	12/21/05	EPA 8082	
PCB-1221	ND	31.6	"	"	"	"	"	"	
PCB-1232	ND	31.6	"	"	"	"	"	"	
PCB-1242	ND	31.6	"	"	"	"	"	"	
PCB-1248	108	31.6	"	"	"	"	"	"	
PCB-1254	ND	31.6	"	"	"	"	"	"	
PCB-1260	ND	31.6	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

55.5 % 10-121

Surrogate: Decachlorobiphenyl

64.9 % 10-127

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-NW-5-23 (B512255-07) Soil Sampled: 12/19/05 13:00 Received: 12/19/05 15:19									
PCB-1016	ND	164	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	164	"	"	"	"	"	"	
PCB-1232	ND	164	"	"	"	"	"	"	
PCB-1242	ND	164	"	"	"	"	"	"	
PCB-1248	593	164	"	"	"	"	"	"	
PCB-1254	ND	164	"	"	"	"	"	"	
PCB-1260	ND	164	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

49.0 % 10-121

Surrogate: Decachlorobiphenyl

64.2 % 10-127

CSS-EW-5-24 (B512255-08) Soil Sampled: 12/19/05 13:10 Received: 12/19/05 15:19

PCB-1016	ND	161	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	161	"	"	"	"	"	"	
PCB-1232	ND	161	"	"	"	"	"	"	
PCB-1242	ND	161	"	"	"	"	"	"	
PCB-1248	276	161	"	"	"	"	"	"	
CB-1254	ND	161	"	"	"	"	"	"	
PCB-1260	ND	161	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

59.1 % 10-121

Surrogate: Decachlorobiphenyl

72.7 % 10-127

CSS-F-6-25 (B512255-09) Soil Sampled: 12/19/05 13:15 Received: 12/19/05 15:19

PCB-1016	ND	163	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	163	"	"	"	"	"	"	
PCB-1232	ND	163	"	"	"	"	"	"	
PCB-1242	ND	163	"	"	"	"	"	"	
PCB-1248	3500	3260	"	1000	"	"	12/21/05	"	
PCB-1254	ND	163	"	50	"	"	12/20/05	"	
PCB-1260	ND	163	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

56.1 % 10-121

Surrogate: Decachlorobiphenyl

66.0 % 10-127

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-NW-5-26 (B512255-10) Soil Sampled: 12/19/05 13:30 Received: 12/19/05 15:19									
PCB-1016	ND	159	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	159	"	"	"	"	"	"	
PCB-1232	ND	159	"	"	"	"	"	"	
PCB-1242	ND	159	"	"	"	"	"	"	
PCB-1248	48200	31900	"	10000	"	"	12/21/05	"	
PCB-1254	ND	159	"	50	"	"	12/20/05	"	
PCB-1260	ND	159	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

69.3 %

10-121

"

"

"

"

Surrogate: Decachlorobiphenyl

84.9 %

10-127

"

"

"

"

CSS-F-6-27 (B512255-11) Soil Sampled: 12/19/05 13:30 Received: 12/19/05 15:19

PCB-1016	ND	162	ug/kg dry	50	5120374	12/20/05	12/20/05	EPA 8082	
PCB-1221	ND	162	"	"	"	"	"	"	
PCB-1232	ND	162	"	"	"	"	"	"	
PCB-1242	ND	162	"	"	"	"	"	"	
PCB-1248	32200	16200	"	5000	"	"	12/21/05	"	
PCB-1254	ND	162	"	50	"	"	12/20/05	"	
PCB-1260	ND	162	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

65.5 %

10-121

"

"

"

"

Surrogate: Decachlorobiphenyl

80.0 %

10-127

"

"

"

"

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-P-0-16 (B512255-01) Soil Sampled: 12/19/05 11:00 Received: 12/19/05 15:19									
% Solids	89.1	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
EMS-P-0-17 (B512255-02) Soil Sampled: 12/19/05 11:00 Received: 12/19/05 15:19									
% Solids	89.8	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
BMS-P-0-18 (B512255-03) Soil Sampled: 12/19/05 11:15 Received: 12/19/05 15:19									
% Solids	91.8	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
BMS-P-0-19 (B512255-04) Soil Sampled: 12/19/05 11:15 Received: 12/19/05 15:19									
% Solids	94.6	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
CSS-SW-5-20 (B512255-05) Soil Sampled: 12/19/05 13:15 Received: 12/19/05 15:19									
% Solids	77.5	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
CSS-NW-5-21 (B512255-06) Soil Sampled: 12/19/05 13:00 Received: 12/19/05 15:19									
% Solids	79.0	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
CSS-NW-5-23 (B512255-07) Soil Sampled: 12/19/05 13:00 Received: 12/19/05 15:19									
% Solids	76.0	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
CSS-EW-5-24 (B512255-08) Soil Sampled: 12/19/05 13:10 Received: 12/19/05 15:19									
% Solids	77.4	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
CSS-F-6-25 (B512255-09) Soil Sampled: 12/19/05 13:15 Received: 12/19/05 15:19									
% Solids	76.6	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-NW-5-26 (B512255-10) Soil Sampled: 12/19/05 13:30 Received: 12/19/05 15:19									
% Solids	78.4	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	
CSS-F-6-27 (B512255-11) Soil Sampled: 12/19/05 13:30 Received: 12/19/05 15:19									
% Solids	77.3	0.200	%	1	5120364	12/19/05	12/20/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5120374 - EPA 3550B

Blank (5120374-BLK1)

Prepared & Analyzed: 12/20/05

PCB-1016	ND	25.0	ug/kg wet							
PCB-1221	ND	25.0	"							
PCB-1232	ND	25.0	"							
PCB-1242	ND	25.0	"							
PCB-1248	ND	25.0	"							
PCB-1254	ND	25.0	"							
PCB-1260	ND	25.0	"							
Surrogate: Tetrachloro-meta-xylene	26.8		"	32.8		81.7	10-121			
Surrogate: Decachlorobiphenyl	28.0		"	32.8		85.4	10-127			

LCS (5120374-BS1)

Prepared & Analyzed: 12/20/05

PCB-1016	61.4	25.0	ug/kg wet	85.3		72.0	14.4-123			
PCB-1260	49.8	25.0	"	85.3		58.4	12.2-132			
Surrogate: Tetrachloro-meta-xylene	20.7		"	34.1		60.7	10-121			
Surrogate: Decachlorobiphenyl	21.4		"	34.1		62.8	10-127			

Matrix Spike (5120374-MS1)

Source: B512255-04

Prepared & Analyzed: 12/20/05

PCB-1016	58.7	26.4	ug/kg dry	90.6	ND	64.8	10-112			
PCB-1260	52.1	26.4	"	90.6	ND	57.5	10-124			
Surrogate: Tetrachloro-meta-xylene	19.3		"	36.3		53.2	10-121			
Surrogate: Decachlorobiphenyl	22.4		"	36.3		61.7	10-127			

Matrix Spike Dup (5120374-MSD1)

Source: B512255-04

Prepared & Analyzed: 12/20/05

PCB-1016	48.9	26.4	ug/kg dry	87.2	ND	56.1	10-112	18.2	40	
PCB-1260	45.6	26.4	"	87.2	ND	52.3	10-124	13.3	40	
Surrogate: Tetrachloro-meta-xylene	16.2		"	34.9		46.4	10-121			
Surrogate: Decachlorobiphenyl	18.3		"	34.9		52.4	10-127			

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512255
Reported: 12/22/05 12:03

Percent Solids - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5120364 - General Prep									
Blank (5120364-BLK1)					Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	ND	0.200	%						
Blank (5120364-BLK2)					Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	ND	0.200	%						
Duplicate (5120364-DUP1)					Source: B512186-10 Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	87.2	0.200	%		86.6		0.690	20	
Duplicate (5120364-DUP2)					Source: B512252-01 Prepared: 12/19/05 Analyzed: 12/20/05				
% Solids	80.6	0.200	%		76.4		5.35	20	

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM

1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan

Project Number: 10315

Project Manager: Jackie Doan

Lab ID: B512255

Reported: 12/22/05 12:03

Notes and Definitions

O15 One or more surrogate recoveries were above the laboratory established control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

L This quality control measurement is below the laboratory established limit.

H This quality control measurement is above the laboratory established limit.

^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.

^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #1L001

TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010

TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008

TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453

TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson, Project Manager



GREAT
LAKES
ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

140 E. F. Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: EQM		Bill To: Same		TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.				
Address: 1800 Cerillon Blvd.		Address:		DATE RESULTS NEEDED: 12/2/05				
Cincinnati OH 45240		State & Program: USEPA		TEMPERATURE UPON RECEIPT: Deliverable Package Needed: <input type="checkbox"/> STD <input type="checkbox"/> Other				
Report to: Jackie Dean Phone #: (513) 825-7500 Fax #: ()		Phone #: () Fax #: ()		Air Bill No.				
Project: DMC Plant #2		# of Bottles Preservative Used		ANALYSIS TYPE				
Sampler: Ken Brown		SAMPLE MATRIX		LABORATORY ID NUMBER				
PO/Quote #:		TIME COLLECTED		SAMPLE CONTROL				
FIELD ID, LOCATION		DATE COLLECTED		CRACKED - BROKEN				
1	CMS-P-0-16	12/1/05	1100	Soil	1	24-48 hr TAT	hot	BS12255-01
2	DMS-P-0-17	12/1/05	1100		1		hot	02
3	BMS-P-0-18	12/1/05	1115		1		clean	03
4	BMS-P-0-19	12/1/05	1115		1		clean	04
5	CSS-SW-S-20	12/19/05	1315		1			05
6	CSS-NW-S-21	12/19/05	1300		1			06
7	CSS-NW-S-23	12/19/05	1300		1			07
8	CSS-FW-S-24	12/19/05	1310		1			08
9	CSS-F-6-25	12/19/05	1315		1			09
10	CSS-NW-S-26	12/19/05	1330		1			10
11	CSS-F-6-27	12/19/05	1330		1			
RELINQUISHED	12/1/05	RECEIVED	12/19/05	RELINQUISHED	12/19/05	RECEIVED	12/19/05	
RELINQUISHED	11/30	RECEIVED	12/19/05	RELINQUISHED	12/19/05	RECEIVED	12/19/05	
COMMENTS: Please call preliminary results to Ken Brown at (202) 510-1667								
PAGE 1 OF 1								

27 December 2005

Lab ID: B512272

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 12/20/05. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Andy Johnson.

Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512272
Reported: 12/27/05 15:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CSS-F-2-28	B512272-01	Soil	12/20/05 11:45	12/20/05 15:40
CSS-F-2-29	B512272-02	Soil	12/20/05 11:45	12/20/05 15:40
CSS-F-2-30	B512272-03	Soil	12/20/05 14:10	12/20/05 15:40
CSS-F-2-31	B512272-04	Soil	12/20/05 14:15	12/20/05 15:40
CSS-F-2-32	B512272-05	Soil	12/20/05 14:15	12/20/05 15:40

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:



Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512272
Reported: 12/27/05 15:53

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-F-2-28 (B512272-01) Soil Sampled: 12/20/05 11:45 Received: 12/20/05 15:40									
PCB-1016	ND	132	ug/kg dry	50	5120374	12/20/05	12/21/05	EPA 8082	
PCB-1221	ND	132	"	"	"	"	"	"	
PCB-1232	ND	132	"	"	"	"	"	"	
PCB-1242	ND	132	"	"	"	"	"	"	
PCB-1248	1680	1320	"	500	"	"	12/21/05	"	
PCB-1254	ND	132	"	50	"	"	12/21/05	"	
PCB-1260	ND	132	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

73.1 % 10-121

Surrogate: Decachlorobiphenyl

76.9 % 10-127

CSS-F-2-29 (B512272-02) Soil Sampled: 12/20/05 11:45 Received: 12/20/05 15:40

PCB-1016	ND	133	ug/kg dry	50	5120374	12/20/05	12/21/05	EPA 8082	
PCB-1221	ND	133	"	"	"	"	"	"	
PCB-1232	ND	133	"	"	"	"	"	"	
PCB-1242	ND	133	"	"	"	"	"	"	
PCB-1248	4010	1330	"	500	"	"	12/21/05	"	
PCB-1254	ND	133	"	50	"	"	12/21/05	"	
PCB-1260	ND	133	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

77.7 % 10-121

Surrogate: Decachlorobiphenyl

77.7 % 10-127

CSS-F-2-30 (B512272-03) Soil Sampled: 12/20/05 14:10 Received: 12/20/05 15:40

PCB-1016	ND	32.1	ug/kg dry	10	5120374	12/20/05	12/22/05	EPA 8082	
PCB-1221	ND	32.1	"	"	"	"	"	"	
PCB-1232	ND	32.1	"	"	"	"	"	"	
PCB-1242	ND	32.1	"	"	"	"	"	"	
PCB-1248	ND	32.1	"	"	"	"	"	"	
PCB-1254	ND	32.1	"	"	"	"	"	"	
PCB-1260	ND	32.1	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

55.7 % 10-121

Surrogate: Decachlorobiphenyl

64.3 % 10-127

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512272
Reported: 12/27/05 15:53

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-F-2-31 (B512272-04) Soil Sampled: 12/20/05 14:15 Received: 12/20/05 15:40									
PCB-1016	ND	31.9	ug/kg dry	10	5120374	12/20/05	12/22/05	EPA 8082	
PCB-1221	ND	31.9	"	"	"	"	"	"	
PCB-1232	ND	31.9	"	"	"	"	"	"	
PCB-1242	ND	31.9	"	"	"	"	"	"	
PCB-1248	ND	31.9	"	"	"	"	"	"	
PCB-1254	ND	31.9	"	"	"	"	"	"	
PCB-1260	ND	31.9	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		60.0 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		68.5 %	10-127	"	"	"	"	"	
CSS-F-2-32 (B512272-05) Soil Sampled: 12/20/05 14:15 Received: 12/20/05 15:40									
PCB-1016	ND	31.8	ug/kg dry	10	5120374	12/20/05	12/22/05	EPA 8082	
PCB-1221	ND	31.8	"	"	"	"	"	"	
PCB-1232	ND	31.8	"	"	"	"	"	"	
PCB-1242	ND	31.8	"	"	"	"	"	"	
PCB-1248	ND	31.8	"	"	"	"	"	"	
PCB-1254	ND	31.8	"	"	"	"	"	"	
PCB-1260	ND	31.8	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70.8 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		85.6 %	10-127	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512272
Reported: 12/27/05 15:53

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-F-2-28 (B512272-01) Soil Sampled: 12/20/05 11:45 Received: 12/20/05 15:40									
% Solids	94.7	0.200	%	1	5120410	12/20/05	12/20/05	EPA 5035 7.5	
CSS-F-2-29 (B512272-02) Soil Sampled: 12/20/05 11:45 Received: 12/20/05 15:40									
% Solids	94.2	0.200	%	1	5120410	12/20/05	12/20/05	EPA 5035 7.5	
CSS-F-2-30 (B512272-03) Soil Sampled: 12/20/05 14:10 Received: 12/20/05 15:40									
% Solids	77.9	0.200	%	1	5120410	12/20/05	12/20/05	EPA 5035 7.5	
CSS-F-2-31 (B512272-04) Soil Sampled: 12/20/05 14:15 Received: 12/20/05 15:40									
% Solids	78.4	0.200	%	1	5120410	12/20/05	12/20/05	EPA 5035 7.5	
CSS-F-2-32 (B512272-05) Soil Sampled: 12/20/05 14:15 Received: 12/20/05 15:40									
% Solids	78.6	0.200	%	1	5120410	12/20/05	12/20/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512272
Reported: 12/27/05 15:53

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120374 - EPA 3550B										
Blank (5120374-BLK1)				Prepared & Analyzed: 12/20/05						
PCB-1016	ND	25.0	ug/kg wet							
PCB-1221	ND	25.0	"							
PCB-1232	ND	25.0	"							
PCB-1242	ND	25.0	"							
PCB-1248	ND	25.0	"							
PCB-1254	ND	25.0	"							
PCB-1260	ND	25.0	"							
Surrogate: Tetrachloro-meta-xylene	26.8		"	32.8		81.7	10-121			
Surrogate: Decachlorobiphenyl	28.0		"	32.8		85.4	10-127			
LCS (5120374-BS1)				Prepared & Analyzed: 12/20/05						
PCB-1016	61.4	25.0	ug/kg wet	85.3		72.0	14.4-123			
PCB-1260	49.8	25.0	"	85.3		58.4	12.2-132			
Surrogate: Tetrachloro-meta-xylene	20.7		"	34.1		60.7	10-121			
Surrogate: Decachlorobiphenyl	21.4		"	34.1		62.8	10-127			
Matrix Spike (5120374-MS1)				Source: B512255-04		Prepared & Analyzed: 12/20/05				
PCB-1016	58.7	26.4	ug/kg dry	90.6	ND	64.8	10-112			
PCB-1260	52.1	26.4	"	90.6	ND	57.5	10-124			
Surrogate: Tetrachloro-meta-xylene	19.3		"	36.3		53.2	10-121			
Surrogate: Decachlorobiphenyl	22.4		"	36.3		61.7	10-127			
Matrix Spike Dup (5120374-MSD1)				Source: B512255-04		Prepared & Analyzed: 12/20/05				
PCB-1016	48.9	26.4	ug/kg dry	87.2	ND	56.1	10-112	18.2	40	
PCB-1260	45.6	26.4	"	87.2	ND	52.3	10-124	13.3	40	
Surrogate: Tetrachloro-meta-xylene	16.2		"	34.9		46.4	10-121			
Surrogate: Decachlorobiphenyl	18.3		"	34.9		52.4	10-127			

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512272
Reported: 12/27/05 15:53

Percent Solids - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120410 - General Prep										
Blank (5120410-BLK1)					Prepared & Analyzed: 12/20/05					
% Solids	ND	0.200	%							
Blank (5120410-BLK2)					Prepared & Analyzed: 12/20/05					
% Solids	ND	0.200	%							
Duplicate (5120410-DUP1)					Source: B512256-02 Prepared & Analyzed: 12/20/05					
% Solids	77.8	0.200	%		78.3			0.641	20	
Duplicate (5120410-DUP2)					Source: B512256-03 Prepared & Analyzed: 12/20/05					
% Solids	78.4	0.200	%		78.4			0.00	20	

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512272
Reported: 12/27/05 15:53

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
L This quality control measurement is below the laboratory established limit.
H This quality control measurement is above the laboratory established limit.
^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

A handwritten signature in black ink that reads "Andy Johnson".

Andy Johnson, Project Manager

CHAIN OF CUSTODY REPORT

1380 Busch Parkway,
Buffalo Grove, Illinois 60089-4505
(847) 808-7766
FAX (847) 808-7772

Client: EQM		Bill To: Same		TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: 1800 Carillon Blvd.		Address:		DATE RESULTS NEEDED: 12/21/05	
Cincinnati, OH 45420		Terms: Net 30 days		Received at laboratory: <input checked="" type="checkbox"/> ambient <input type="checkbox"/> ice	
Report to: Jackie Deam		Phone #: (513) 827-3500		Deliverable Package: <input type="checkbox"/> Client <input type="checkbox"/> Shipped <input type="checkbox"/> Courier <input type="checkbox"/>	
E-mail: jdeam@eyon.com		Fax #: (513) 827-3500		Lab name: EQM	
Project Name: OMC Plant #2		State & Program:		Payable: 3	
Project #/PO#: Ken		Sample Matrix:		SAMPLE CONTROL	
Sampler: Ken Deam		DATE COLLECTED		LABORATORY ID NUMBER	
FIELD ID LOCATION		TIME COLLECTED		ANALYSIS TYPE	
1 C&S-F-2-28		1145		B512272-01	
2 C&S-F-2-29		1145		02	
3 C&S-S-D-2-30		1410		These 3 are not B	
4 C&S-S-D-2-31		1415		next 13 are 1 Day TAT	
5 C&S-S-D-2-32		1415		11 and 5 Day TAT	
6					
7					
8					
9					
10					
RELINQUISHED		RECEIVED		RELINQUISHED	
Ken Deam		12/21/05		12/21/05	
DATE		TIME		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED	
12/21/05		1415		12/21/05	
DATE		TIME		DATE	
COMMENTS:					
PAGE OF					

22 December 2005

Lab ID: B512287

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 12/21/05. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

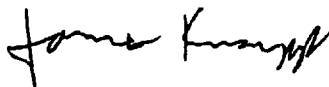
This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Andy Johnson.

Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512287
Reported: 12/22/05 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EMS-BP-0-33	B512287-01	Soil	12/21/05 10:30	12/21/05 16:35
EMS-P-0-34	B512287-02	Soil	12/21/05 13:30	12/21/05 16:35
CSS-EW-7-35	B512287-03	Soil	12/21/05 13:40	12/21/05 16:35
CSS-F-8-36	B512287-04	Soil	12/21/05 13:45	12/21/05 16:35
CSS-SW-7-37	B512287-05	Soil	12/21/05 13:45	12/21/05 16:35

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512287
Reported: 12/22/05 16:04

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-BP-0-33 (B512287-01) Soil Sampled: 12/21/05 10:30 Received: 12/21/05 16:35									
PCB-1016	ND	140	ug/kg dry	50	5120427	12/21/05	12/22/05	EPA 8082	
PCB-1221	ND	140	"	"	"	"	"	"	
PCB-1232	ND	140	"	"	"	"	"	"	
PCB-1242	ND	140	"	"	"	"	"	"	
PCB-1248	1860	700	"	250	"	"	12/22/05	"	
PCB-1254	ND	140	"	50	"	"	12/22/05	"	
PCB-1260	ND	140	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	15.0 %	10-121	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	14.9 %	10-127	"	"	"	"	"	"	

EMS-P-0-34 (B512287-02) Soil Sampled: 12/21/05 13:30 Received: 12/21/05 16:35

PCB-1016	ND	138	ug/kg dry	50	5120427	12/21/05	12/21/05	EPA 8082	
PCB-1221	ND	138	"	"	"	"	"	"	
PCB-1232	ND	138	"	"	"	"	"	"	
PCB-1242	ND	138	"	"	"	"	12/22/05	"	
PCB-1248	223000	138000	"	50000	"	"	12/21/05	"	
PCB-1254	ND	138	"	50	"	"	"	"	
PCB-1260	ND	138	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	64.7 %	10-121	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	54.0 %	10-127	"	"	"	"	"	"	

CSS-EW-7-35 (B512287-03) Soil Sampled: 12/21/05 13:40 Received: 12/21/05 16:35

PCB-1016	ND	139	ug/kg dry	50	5120427	12/21/05	12/21/05	EPA 8082	
PCB-1221	ND	139	"	"	"	"	"	"	
PCB-1232	ND	139	"	"	"	"	"	"	
PCB-1242	ND	139	"	"	"	"	"	"	
PCB-1248	960	279	"	100	"	"	12/22/05	"	
PCB-1254	ND	139	"	50	"	"	12/21/05	"	
PCB-1260	ND	139	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	58.3 %	10-121	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	62.1 %	10-127	"	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512287
Reported: 12/22/05 16:04

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-F-8-36 (B512287-04) Soil Sampled: 12/21/05 13:45 Received: 12/21/05 16:35									
PCB-1016	ND	137	ug/kg dry	50	5120427	12/21/05	12/21/05	EPA 8082	
PCB-1221	ND	137	"	"	"	"	"	"	
PCB-1232	ND	137	"	"	"	"	"	"	
PCB-1242	ND	137	"	"	"	"	"	"	
PCB-1248	538	137	"	"	"	"	"	"	
PCB-1254	ND	137	"	"	"	"	"	"	
PCB-1260	ND	137	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		68.1 %	10-121		"	"	"	"	
Surrogate: Decachlorobiphenyl		71.4 %	10-127		"	"	"	"	

CSS-SW-7-37 (B512287-05) Soil Sampled: 12/21/05 13:45 Received: 12/21/05 16:35

PCB-1016	ND	163	ug/kg dry	50	5120427	12/21/05	12/21/05	EPA 8082	
PCB-1221	ND	163	"	"	"	"	"	"	
PCB-1232	ND	163	"	"	"	"	"	"	
PCB-1242	ND	163	"	"	"	"	"	"	
PCB-1248	321	163	"	"	"	"	"	"	
PCB-1254	ND	163	"	"	"	"	"	"	
PCB-1260	ND	163	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		76.6 %	10-121		"	"	"	"	
Surrogate: Decachlorobiphenyl		80.5 %	10-127		"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512287
Reported: 12/22/05 16:04


Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-BP-0-33 (B512287-01) Soil Sampled: 12/21/05 10:30 Received: 12/21/05 16:35									
% Solids	89.3	0.200	%	1	5120431	12/21/05	12/22/05	EPA 5035 7.5	
EMS-P-0-34 (B512287-02) Soil Sampled: 12/21/05 13:30 Received: 12/21/05 16:35									
% Solids	90.5	0.200	%	1	5120431	12/21/05	12/22/05	EPA 5035 7.5	
CSS-EW-7-35 (B512287-03) Soil Sampled: 12/21/05 13:40 Received: 12/21/05 16:35									
% Solids	79.8	0.200	%	1	5120431	12/21/05	12/22/05	EPA 5035 7.5	
CSS-F-8-36 (B512287-04) Soil Sampled: 12/21/05 13:45 Received: 12/21/05 16:35									
% Solids	78.8	0.200	%	1	5120431	12/21/05	12/22/05	EPA 5035 7.5	
CSS-SW-7-37 (B512287-05) Soil Sampled: 12/21/05 13:45 Received: 12/21/05 16:35									
% Solids	76.7	0.200	%	1	5120431	12/21/05	12/22/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed & Approved by: 

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512287
Reported: 12/22/05 16:04

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120427 - EPA 3550B

Blank (5120427-BLK1)

Prepared: 12/21/05 Analyzed: 12/22/05

PCB-1016	ND	25.0	ug/kg wet							
PCB-1221	ND	25.0	"							
PCB-1232	ND	25.0	"							
PCB-1242	ND	25.0	"							
PCB-1248	ND	25.0	"							
PCB-1254	ND	25.0	"							
PCB-1260	ND	25.0	"							
Surrogate: Tetrachloro-meta-xylene	29.6		"	34.2		86.5	10-121			
Surrogate: Decachlorobiphenyl	38.9		"	34.2		114	10-127			

LCS (5120427-BS1)

Prepared: 12/21/05 Analyzed: 12/22/05

PCB-1016	69.7	25.0	ug/kg wet	85.2		81.8	14.4-123			
PCB-1260	78.8	25.0	"	85.2		92.5	12.2-132			
Surrogate: Tetrachloro-meta-xylene	21.1		"	34.1		61.9	10-121			
Surrogate: Decachlorobiphenyl	29.3		"	34.1		85.9	10-127			

Matrix Spike (5120427-MS1)

Source: B512257-03

Prepared: 12/21/05 Analyzed: 12/22/05

PCB-1016	76.9	30.5	ug/kg dry	105	ND	73.2	10-112			
PCB-1260	80.3	30.5	"	105	ND	76.5	10-124			
Surrogate: Tetrachloro-meta-xylene	25.2		"	42.0		60.0	10-121			
Surrogate: Decachlorobiphenyl	31.2		"	42.0		74.3	10-127			

Matrix Spike Dup (5120427-MSD1)

Source: B512257-03

Prepared: 12/21/05 Analyzed: 12/22/05

PCB-1016	73.9	30.5	ug/kg dry	99.7	ND	74.1	10-112	3.98	40	
PCB-1260	74.1	30.5	"	99.7	ND	74.3	10-124	8.03	40	
Surrogate: Tetrachloro-meta-xylene	19.9		"	39.9		49.9	10-121			
Surrogate: Decachlorobiphenyl	25.8		"	39.9		64.7	10-127			

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knist

Margaret Knist For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512287
Reported: 12/22/05 16:04

Percent Solids - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120431 - General Prep

Blank (5120431-BLK1)

Prepared: 12/21/05 Analyzed: 12/22/05

% Solids	ND	0.200	%
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Duplicate (5120431-DUP1)

Source: B512276-01

Prepared: 12/21/05 Analyzed: 12/22/05

% Solids	85.1	0.200	%	85.7	0.703	20
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TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

QM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512287
Reported: 12/22/05 16:04

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
L This quality control measurement is below the laboratory established limit.
H This quality control measurement is above the laboratory established limit.
^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

CHAIN OF CUSTODY REPORT

1380 Busch Park:
Buffalo Grove, Illinois 60089-4505
(847) 808-7766
FAX (847) 808-7772

Client: EQM		Bill To: Samuel		TAT: STD 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: 1800 Carillon Blvd.		Address:		DATE RESULTS NEEDED: 12/22/05	
City: Cincinnati, OH 45420		Terms: Net 30 days		Received at laboratory: <input checked="" type="checkbox"/> ambient <input type="checkbox"/> ice	
Report to: Jackie Dean		Phone #: (513) 823-7500		Deliverable Package: Delivery Method: <input type="checkbox"/> STD <input type="checkbox"/> Other TAT <input type="checkbox"/> Client <input type="checkbox"/> Shipped <input type="checkbox"/> Courier <input type="checkbox"/>	
E-mail: jackie.d@tesa.com		Fax #: (513) 823-7500		State & Program:	
Project Name: EMC Plant #2		# of Bottles Preservative Used		ANALYSIS TYPE	
Project #/PO#: Ken Brown		SAMPLE MATRIX		LABORATORY ID NUMBER	
Sampler: Ken Brown		DATE COLLECTED		DATE RECEIVED	
FIELD ID LOCATION		TIME COLLECTED		TIME RECEIVED	
1	EMS-SP-0-33	PID:	12/21/05 1030	Soil	12/22/05 1030
2	EMS-P-0-34	PID:	12/21/05 1330	Soil	12/22/05 1330
3	CSS-EW-7-35	PID:	12/21/05 1340	↓	12/22/05 1340
4	CSS-F-8-36	PID:	12/21/05 1345	↓	12/22/05 1345
5	CSS-SW-7-37	PID:	12/21/05 1345	↓	12/22/05 1345
6		PID:			
7		PID:			
8		PID:			
9		PID:			
10		PID:			
RELINQUISHED		RECEIVED		RECEIVED	
Signature: Ken Brown		Signature: Samuel		Signature: Samuel	
DATE: 12/21/05		DATE: 12/21/05		DATE: 12/21/05	
TIME: 1345		TIME: 1345		TIME: 1345	
RELINQUISHED		RECEIVED		RECEIVED	
Signature: Samuel		Signature: Samuel		Signature: Samuel	
DATE: 12/21/05		DATE: 12/21/05		DATE: 12/21/05	
TIME: 1345		TIME: 1345		TIME: 1345	
COMMENTS:					
PAGE OF					

30 December 2005

Lab ID: B512295

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 12/22/05. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Andy Johnson.

Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512295
Reported: 12/30/05 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CSS-EW-3-38	B512295-01	Soil	12/22/05 10:00	12/22/05 12:30
CSS-EW-3-39	B512295-02	Soil	12/22/05 10:00	12/22/05 12:30
EMS-GR-0-40	B512295-03	Soil	12/22/05 10:30	12/22/05 12:30
EMS-ODR-0-41	B512295-04	Soil	12/22/05 10:45	12/22/05 12:30
EMS-IHP-0-42	B512295-05	Soil	12/22/05 11:00	12/22/05 12:30

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed &
Approved by:



Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512295
Reported: 12/30/05 14:56

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-EW-3-38 (B512295-01) Soil Sampled: 12/22/05 10:00 Received: 12/22/05 12:30 QC									
PCB-1016	ND	142	ug/kg dry	50	5120459	12/22/05	12/22/05	EPA 8082	
PCB-1221	ND	142	"	"	"	"	"	"	
PCB-1232	ND	142	"	"	"	"	"	"	
PCB-1242	ND	142	"	"	"	"	"	"	
PCB-1248	667000	142000	"	50000	"	"	12/30/05	"	
PCB-1254	ND	142	"	50	"	"	12/22/05	"	
PCB-1260	ND	142	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.2 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		96.9 %	10-127	"	"	"	"	"	

CSS-EW-3-39 (B512295-02) Soil Sampled: 12/22/05 10:00 Received: 12/22/05 12:30 QC									
PCB-1016	ND	141	ug/kg dry	50	5120459	12/22/05	12/22/05	EPA 8082	
PCB-1221	ND	141	"	"	"	"	"	"	
PCB-1232	ND	141	"	"	"	"	"	"	
PCB-1242	ND	141	"	"	"	"	"	"	
PCB-1248	1140000	565000	"	200000	"	"	12/30/05	"	
PCB-1254	ND	141	"	50	"	"	12/22/05	"	
PCB-1260	ND	141	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		46.6 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		93.2 %	10-127	"	"	"	"	"	

EMS-GR-0-40 (B512295-03) Soil Sampled: 12/22/05 10:30 Received: 12/22/05 12:30 QC									
PCB-1016	ND	132	ug/kg dry	50	5120459	12/22/05	12/22/05	EPA 8082	
PCB-1221	ND	132	"	"	"	"	"	"	
PCB-1232	ND	132	"	"	"	"	"	"	
PCB-1242	ND	132	"	"	"	"	"	"	
PCB-1248	67100	26400	"	10000	"	"	12/27/05	"	
PCB-1254	ND	132	"	50	"	"	12/22/05	"	
PCB-1260	ND	132	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		72.0 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		75.8 %	10-127	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512295
Reported: 12/30/05 14:56

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-ODR-0-41 (B512295-04) Soil Sampled: 12/22/05 10:45 Received: 12/22/05 12:30 QC									
PCB-1016	ND	142	ug/kg dry	50	5120459	12/22/05	12/22/05	EPA 8082	
PCB-1221	ND	142	"	"	"	"	"	"	
PCB-1232	ND	142	"	"	"	"	"	"	
PCB-1242	ND	142	"	"	"	"	"	"	
PCB-1248	87700	28500	"	10000	"	"	12/27/05	"	
PCB-1254	ND	142	"	50	"	"	12/22/05	"	
PCB-1260	ND	142	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.1 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		71.9 %	10-127	"	"	"	"	"	

EMS-IHP-0-42 (B512295-05) Soil Sampled: 12/22/05 11:00 Received: 12/22/05 12:30 QC									
PCB-1016	ND	116	ug/kg dry	50	5120459	12/22/05	12/22/05	EPA 8082	
PCB-1221	ND	116	"	"	"	"	"	"	
PCB-1232	ND	116	"	"	"	"	"	"	
PCB-1242	ND	116	"	"	"	"	"	"	
PCB-1248	67900	23100	"	10000	"	"	12/27/05	"	
PCB-1254	ND	116	"	50	"	"	12/22/05	"	
PCB-1260	ND	116	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		74.9 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		73.0 %	10-127	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512295
Reported: 12/30/05 14:56

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CSS-EW-3-38 (B512295-01) Soil Sampled: 12/22/05 10:00 Received: 12/22/05 12:30									
% Solids	88.0	0.200	%	1	5120445	12/22/05	12/27/05	EPA 5035 7.5	
CSS-EW-3-39 (B512295-02) Soil Sampled: 12/22/05 10:00 Received: 12/22/05 12:30									
% Solids	88.5	0.200	%	1	5120445	12/22/05	12/27/05	EPA 5035 7.5	
EMS-GR-0-40 (B512295-03) Soil Sampled: 12/22/05 10:30 Received: 12/22/05 12:30									
% Solids	94.7	0.200	%	1	5120445	12/22/05	12/27/05	EPA 5035 7.5	
EMS-ODR-0-41 (B512295-04) Soil Sampled: 12/22/05 10:45 Received: 12/22/05 12:30									
% Solids	87.8	0.200	%	1	5120445	12/22/05	12/27/05	EPA 5035 7.5	
EMS-IHP-0-42 (B512295-05) Soil Sampled: 12/22/05 11:00 Received: 12/22/05 12:30									
% Solids	91.8	0.200	%	1	5120445	12/22/05	12/27/05	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512295
Reported: 12/30/05 14:56

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120459 - EPA 3550B

Blank (5120459-BLK1)

Prepared & Analyzed: 12/22/05

PCB-1016	ND	25.0	ug/kg wet							
PCB-1221	ND	25.0	"							
PCB-1232	ND	25.0	"							
PCB-1242	ND	25.0	"							
PCB-1248	ND	25.0	"							
PCB-1254	ND	25.0	"							
PCB-1260	ND	25.0	"							
Surrogate: Tetrachloro-meta-xylene	28.8		"	34.0		84.7	10-121			
Surrogate: Decachlorobiphenyl	27.3		"	34.0		80.3	10-127			

LCS (5120459-BS1)

Prepared & Analyzed: 12/22/05

PCB-1016	82.8	21.8	ug/kg wet	82.6		100	14.4-123			
PCB-1260	73.2	21.8	"	82.6		88.6	12.2-132			
Surrogate: Tetrachloro-meta-xylene	26.5		"	33.0		80.3	10-121			
Surrogate: Decachlorobiphenyl	25.9		"	33.0		78.5	10-127			

Matrix Spike (5120459-MS1)

Source: B512295-04

Prepared: 12/22/05 Analyzed: 12/27/05

PCB-1016	133000	56900	ug/kg dry	96.7	ND	NR	10-112			H
PCB-1260	19700	5690	"	96.7	ND	NR	10-124			H
Surrogate: Tetrachloro-meta-xylene	108		"	38.7		279	10-121			H
Surrogate: Decachlorobiphenyl	159		"	38.7		411	10-127			H

Matrix Spike Dup (5120459-MSD1)

Source: B512295-04

Prepared: 12/22/05 Analyzed: 12/27/05

PCB-1016	79700	28500	ug/kg dry	92.5	ND	NR	10-112	50.1	40	HH
PCB-1260	11800	2850	"	92.5	ND	NR	10-124	50.2	40	HH
Surrogate: Tetrachloro-meta-xylene	52.2		"	37.0		141	10-121			H
Surrogate: Decachlorobiphenyl	63.6		"	37.0		172	10-127			H

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512295
Reported: 12/30/05 14:56

Percent Solids - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5120445 - General Prep										
Blank (5120445-BLK1)				Prepared: 12/22/05 Analyzed: 12/27/05						
% Solids	ND	0.200	%							
Blank (5120445-BLK2)				Prepared: 12/22/05 Analyzed: 12/27/05						
% Solids	ND	0.200	%							
Duplicate (5120445-DUP1)				Source: B512294-01		Prepared: 12/22/05 Analyzed: 12/27/05				
% Solids	82.0	0.200	%		80.5			1.85	20	
Duplicate (5120445-DUP2)				Source: B512294-02		Prepared: 12/22/05 Analyzed: 12/27/05				
% Solids	79.7	0.200	%		80.0			0.376	20	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B512295
Reported: 12/30/05 14:56

Notes and Definitions

QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
L	This quality control measurement is below the laboratory established limit.
H	This quality control measurement is above the laboratory established limit.
^	The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
^^	The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Andy Johnson

Andy Johnson, Project Manager

CHAIN OF CUSTODY REPORT

1380 Busch Parkw
Buffalo Grove, Illinois 60089-4505
(847) 808-7766
FAX (847) 808-7772

Client: EQM		Bill To: Same		TAT: STD. 4 DAY 3 DAY 2 DAY (1 DAY) <24 HRS.			
Address: 1800 Carillon Blvd		Address:		DATE REPORTS NEEDED: <input checked="" type="checkbox"/> YES - TAT is critical <input type="checkbox"/> NO - TAT is not critical Dec. 27, 2007			
Report to: Cincinnati OH 45420		Terms: Net 30 days		Received at laboratory: <input type="checkbox"/> ambient <input checked="" type="checkbox"/> ice PU Temp. Lab Temp.			
E-mail: Jedean.Dean@testamc.com		Phone #: (513) 525-7500		Deliverable Package: Delivery Method: <input type="checkbox"/> STD <input type="checkbox"/> Other TAT <input type="checkbox"/> Client <input type="checkbox"/> Shipped <input type="checkbox"/> Courier <input type="checkbox"/>			
Project Name: Dm c Plant #2		State & Program:		THIS SECTION FOR LAB USE ONLY			
Project #/PO#:		# of Bottles Preservative Used		ANALYSIS TYPE			
Sampler: Ken Braun		NONE NaOH H2SO4 HNO3 HCl NaHSO4 NaOH		LABORATORY ID NUMBER			
FIELD ID, LOCATION		SAMPLE MATRIX		SAMPLE CONTROL			
DATE COLLECTED		TIME COLLECTED		CRACKED BROKEN IMPROPERLY SEALED			
1	CSS-EW-3-38	PID:	12/26/05 1000	Soil	11	1-Day TAT not needed	BS12295-01
2	CSS-EW-3-39	PID:	12/26/05 1000	Soil	11	Normal 5-Day TAT	02
3	EMS-GR-0-40	PID:	12/26/05 1030		11	1-Day TAT	03
4	EMS-ODR-0-41	PID:	12/26/05 1045		11	1-Day TAT	04
5	EMS-TWP-0-42	PID:	12/26/05 1100		11	1-Day TAT	05
6		PID:					
7		PID:					
8		PID:					
9		PID:					
10		PID:					
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Kenneth A. Dean		12/26/05		12/26/05		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
RELINQUISHED		RECEIVED		RELINQUISHED		RECEIVED	
Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10		DATE	
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Jedean Dean		12/26/05		Jedean Dean		12/26/05	
TIME 10		DATE		TIME 10			

01 February 2006

Lab ID: B601239

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 01/19/06. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Andy Johnson.

Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LSS-0-0-45	B601239-01	Soil	01/18/06 15:00	01/19/06 08:30

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

Toxicity Characteristic Leaching Procedure (TCLP) by EPA Method 1311

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
Date of Inorganics Rotation	01/19/06				6010313			EPA 1311	
Date of Semivolatile Organics Rotation	01/19/06		"	"	"	"	"	"	
Date of Volatile Organics ZHE Rotation	01/19/06		"	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

General Chemistry

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
Flashpoint	>220 °F		°F	1	6010342	01/20/06	01/20/06	ASTM D92-85	
Free Liquid	No sample flowed.		N/A	"	6010343	01/20/06	01/20/06	9095A	
pH	8.63		pH Units	"	6010318	01/19/06	01/19/06	EPA 9045C	G26
Phenol	ND	0.676	mg/kg dry	"	6010332	01/20/06	01/23/06	EPA 9065	
Reactive Cyanide	ND	0.139	"	"	6010337	01/20/06	01/23/06	EPA 9014 Ch 7	G33
Reactive Sulfide	ND	6.97	"	"	6010338	01/20/06	01/20/06	EPA 9034 Ch 7	G33

TestAmerica - Buffalo Grove, IL

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Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
Mercury	ND	0.000200	mg/l	1	6010400	01/26/06	01/26/06	EPA 7470A	
Arsenic	ND	0.0500	"	"	6010326	01/20/06	01/24/06	EPA 6010B	
Barium	0.904	0.100	"	"	"	"	"	"	QC
Cadmium	ND	0.00500	"	"	"	"	"	"	
Chromium	ND	0.100	"	"	"	"	"	"	
Selenium	ND	0.0500	"	"	"	"	"	"	
Silver	ND	0.0500	"	"	"	"	"	"	
Lead	ND	0.00500	"	"	"	"	01/20/06	EPA 7421	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Volatile Organic Compounds by EPA Methods 1311/8260B
TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									QC
Benzene	ND	0.400	mg/l	20	6010354	01/23/06	01/23/06	EPA 8260B	
Carbon tetrachloride	ND	0.400	"	"	"	"	"	"	
Chlorobenzene	ND	0.400	"	"	"	"	"	"	
Chloroform	ND	0.400	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.400	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.400	"	"	"	"	"	"	
Methyl ethyl ketone	ND	100	"	"	"	"	"	"	
Tetrachloroethene	ND	0.400	"	"	"	"	"	"	
Trichloroethylene	ND	0.400	"	"	"	"	"	"	
Vinyl chloride	ND	0.160	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	55.9-150		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	47.5-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	55.4-145		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	40.4-137		"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knist

Margaret Knist For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Semivolatiles by EPA Methods 1311/8270C

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
o-Cresol	ND	17.6	mg/l	1	6010322	01/20/06	01/23/06	EPA 8270C	
m,p-Cresols	ND	17.6	"	"	"	"	"	"	
Cresol	ND	17.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.660	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.0176	"	"	"	"	"	"	
Hexachlorobenzene	ND	0.0176	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0440	"	"	"	"	"	"	
Hexachloroethane	ND	0.264	"	"	"	"	"	"	
Nitrobenzene	ND	0.176	"	"	"	"	"	"	
Pentachlorophenol	ND	8.80	"	"	"	"	"	"	
Pyridine	ND	0.440	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	35.2	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.176	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		16.7 %	10-110		"	"	"	"	
Surrogate: Phenol-d6		12.2 %	10-110		"	"	"	"	
Surrogate: Nitrobenzene-d5		42.4 %	10-116		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		46.0 %	10-119		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		32.4 %	10-114		"	"	"	"	
Surrogate: p-Terphenyl-d14		40.8 %	10-135		"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
% Solids	93.2	0.200	%	1	6010302	01/19/06	01/19/06	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Approved by:



Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

General Chemistry Parameters
TestAmerica Analytical - Nashville

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
Extractable Organic Halides	ND	50.0	mg/kg	1	6012707	01/20/06	01/22/06	SW846 9023	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Chlorinated Herbicides by EPA Method 8151

TestAmerica Analytical - Nashville

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
2,4-D	ND	0.100	mg/L	1	6013738	01/23/06	01/25/06	SW846 1311/8151A	
2,4,5-TP (Silvex)	ND	0.0100	"	"	"	"	"	"	
Surrogate: Dichloroacetic Acid		59 %	17-136		"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Pesticides by EPA Method 1311/8081A

TestAmerica Analytical - Nashville

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LSS-0-0-45 (B601239-01) Soil Sampled: 01/18/06 15:00 Received: 01/19/06 08:30									
gamma-BHC (Lindane) [2C]	ND	0.000500	mg/L	1	6013290	01/24/06	01/26/06	SW846 1311/8081A	
Chlordane [2C]	ND	0.000500	"	"	"	"	"	"	
Endrin [2C]	ND	0.000500	"	"	"	"	"	"	
Heptachlor [2C]	ND	0.000500	"	"	"	"	"	"	
Heptachlor epoxide [2C]	ND	0.000500	"	"	"	"	"	"	
Methoxychlor [2C]	ND	0.000500	"	"	"	"	"	"	
Toxaphene [2C]	ND	0.0100	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene [2C]		100 %		58-117	"	"	"	"	
Surrogate: Decachlorobiphenyl [2C]		87 %		22-115	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

General Chemistry - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010318 - General Prep WC

Duplicate (6010318-DUP1) Source: B601213-01 Prepared & Analyzed: 01/19/06

pH	6.50		pH Units	6.52				0.307	1	
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Batch 6010332 - General Prep WC

Blank (6010332-BLK1) Prepared: 01/20/06 Analyzed: 01/23/06

Phenol	ND	0.630	mg/kg wet							
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LCS (6010332-BS1) Prepared: 01/20/06 Analyzed: 01/23/06

Phenol	10.6	0.630	mg/kg wet	10.0		106	85.5-119			
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Matrix Spike (6010332-MS1) Source: B601239-01 Prepared: 01/20/06 Analyzed: 01/23/06

Phenol	9.47	0.676	mg/kg dry	10.7	ND	88.5	45-119			
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Matrix Spike Dup (6010332-MSD1) Source: B601239-01 Prepared: 01/20/06 Analyzed: 01/23/06

Phenol	9.63	0.676	mg/kg dry	10.6	ND	90.8	45-119	1.68	34.7	
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Batch 6010337 - General Prep WC

Blank (6010337-BLK1) Prepared: 01/20/06 Analyzed: 01/23/06

Reactive Cyanide	ND	0.130	mg/kg wet							
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LCS (6010337-BS1) Prepared: 01/20/06 Analyzed: 01/23/06

Reactive Cyanide	9.24	0.130	mg/kg wet	11.4		81.1	42.1-110			
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Matrix Spike (6010337-MS1) Source: B601239-01 Prepared: 01/20/06 Analyzed: 01/23/06

Reactive Cyanide	10.8	0.139	mg/kg dry	12.2	ND	88.5	30.6-110			
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TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

General Chemistry - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010337 - General Prep WC

Matrix Spike Dup (6010337-MSD1) Source: B601239-01 Prepared: 01/20/06 Analyzed: 01/23/06

Reactive Cyanide	10.6	0.139	mg/kg dry	12.0	ND	88.3	30.6-110	1.87	40	
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Batch 6010338 - General Prep WC

Blank (6010338-BLK1) Prepared & Analyzed: 01/20/06

Reactive Sulfide	ND	6.50	mg/kg wet							
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LCS (6010338-BS1) Prepared & Analyzed: 01/20/06

Reactive Sulfide	25.0	6.50	mg/kg wet	24.0		104	10-139			
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Matrix Spike (6010338-MS1) Source: B601239-01 Prepared & Analyzed: 01/20/06

Reactive Sulfide	21.4	6.97	mg/kg dry	25.6	ND	83.6	10-110			
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Matrix Spike Dup (6010338-MSD1) Source: B601239-01 Prepared & Analyzed: 01/20/06

Reactive Sulfide	23.7	6.97	mg/kg dry	25.2	ND	94.0	10-110	10.2	33.5	
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Batch 6010342 - General Prep WC

Duplicate (6010342-DUP1) Source: B601254-01 Prepared & Analyzed: 01/20/06

Flashpoint	>220 °F		°F		0.00				20	
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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010326 - EPA 3010A TCLP/SPLP

Blank (6010326-BLK1)

Prepared: 01/20/06 Analyzed: 01/24/06

Arsenic	ND	0.0500	mg/l
Barium	ND	0.100	"
Cadmium	ND	0.00500	"
Chromium	ND	0.100	"
Lead	ND	0.00500	"
Selenium	ND	0.0500	"
Silver	ND	0.0500	"

LCS (6010326-BS1)

Prepared: 01/20/06 Analyzed: 01/24/06

Arsenic	0.208	0.0500	mg/l	0.200	104	85.8-110
Barium	0.474	0.100	"	0.500	94.8	90-111
Cadmium	0.203	0.00500	"	0.200	102	90-115
Chromium	0.194	0.100	"	0.200	97.0	83.6-110
Lead	0.0239	0.00500	"	0.0300	79.7	58.1-128
Selenium	0.227	0.0500	"	0.200	114	87.3-117
Silver	0.101	0.0500	"	0.100	101	65.4-125

Matrix Spike (6010326-MS1)

Source: B601239-01

Prepared: 01/20/06 Analyzed: 01/24/06

Arsenic	0.217	0.0500	mg/l	0.200	0.00910	104	81.5-118
Barium	1.33	0.100	"	0.500	0.904	85.2	90-112
Cadmium	0.200	0.00500	"	0.200	ND	100	90-114
Chromium	0.193	0.100	"	0.200	ND	96.5	81.5-110
Lead	0.0268	0.00500	"	0.0300	0.00442	74.6	27.5-149
Selenium	0.231	0.0500	"	0.200	0.0110	110	86.8-119
Silver	0.104	0.0500	"	0.100	ND	104	10-150

Matrix Spike Dup (6010326-MSD1)

Source: B601239-01

Prepared: 01/20/06 Analyzed: 01/24/06

Arsenic	0.211	0.0500	mg/l	0.200	0.00910	101	81.5-118	2.80	23.6
Barium	1.32	0.100	"	0.500	0.904	83.2	90-112	0.755	24
Cadmium	0.198	0.00500	"	0.200	ND	99.0	90-114	1.01	23.4
Chromium	0.190	0.100	"	0.200	ND	95.0	81.5-110	1.57	23.1
Lead	0.0265	0.00500	"	0.0300	0.00442	73.6	27.5-149	1.13	18.6
Selenium	0.229	0.0500	"	0.200	0.0110	109	86.8-119	0.870	25.6
Silver	0.104	0.0500	"	0.100	ND	104	10-150	0.00	35

TestAmerica - Buffalo Grove, IL

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Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

eQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Metals by EPA 1311/6000/7000 Series Methods - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010400 - EPA 7470A										
Blank (6010400-BLK1)				Prepared & Analyzed: 01/26/06						
Mercury	ND	0.000200	mg/l							
LCS (6010400-BS1)				Prepared & Analyzed: 01/26/06						
Mercury	0.00164	0.000200	mg/l	0.00150		109	78.8-127			
Matrix Spike (6010400-MS1)				Source: B601239-01 Prepared & Analyzed: 01/26/06						
Mercury	0.00174	0.000200	mg/l	0.00150	0.0000690	111	76-128			
Matrix Spike Dup (6010400-MSD1)				Source: B601239-01 Prepared & Analyzed: 01/26/06						
Mercury	0.00186	0.000200	mg/l	0.00150	0.0000690	119	76-128	6.67	10	

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Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Volatile Organic Compounds by EPA Methods 1311/8260B - Quality Control
TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010354 - EPA 5030B TCLP/SPLP

Blank (6010354-BLK1)

Prepared & Analyzed: 01/23/06

Benzene	ND	0.400	mg/l							
Carbon tetrachloride	ND	0.400	"							
Chlorobenzene	ND	0.400	"							
Chloroform	ND	0.400	"							
1,2-Dichloroethane	ND	0.400	"							
1,1-Dichloroethylene	ND	0.400	"							
Methyl ethyl ketone	ND	100	"							
Tetrachloroethene	ND	0.400	"							
Trichloroethylene	ND	0.400	"							
Vinyl chloride	ND	0.160	"							
Surrogate: Dibromofluoromethane	0.0524		"	0.0500		105	55.9-150			
Surrogate: 1,2-Dichloroethane-d4	0.0498		"	0.0500		99.6	47.5-150			
Surrogate: Toluene-d8	0.0508		"	0.0500		102	55.4-145			
Surrogate: 4-Bromofluorobenzene	0.0506		"	0.0500		101	40.4-137			

LCS (6010354-BS1)

Prepared & Analyzed: 01/23/06

Benzene	1.07	0.400	mg/l	1.00		107	54.8-130			
Carbon tetrachloride	1.06	0.400	"	1.00		106	43.4-141			
Chlorobenzene	0.907	0.400	"	1.00		90.7	56.2-127			
Chloroform	1.38	0.400	"	1.00		138	53.7-135			H
1,2-Dichloroethane	1.16	0.400	"	1.00		116	54.6-140			
1,1-Dichloroethylene	1.03	0.400	"	1.00		103	45.9-129			
Methyl ethyl ketone	1.65	100	"	1.00		165	10-150			H
Tetrachloroethene	0.917	0.400	"	1.00		91.7	46.7-131			
Trichloroethylene	1.13	0.400	"	1.00		113	59.2-135			
Vinyl chloride	0.908	0.160	"	1.00		90.8	28.4-150			
Surrogate: Dibromofluoromethane	0.0523		"	0.0500		105	55.9-150			
Surrogate: 1,2-Dichloroethane-d4	0.0511		"	0.0500		102	47.5-150			
Surrogate: Toluene-d8	0.0520		"	0.0500		104	55.4-145			
Surrogate: 4-Bromofluorobenzene	0.0511		"	0.0500		102	40.4-137			

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Volatile Organic Compounds by EPA Methods 1311/8260B - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010354 - EPA 5030B TCLP/SPLP

Matrix Spike (6010354-MS1) Source: B601239-01 Prepared & Analyzed: 01/23/06

Benzene	1.08	0.400	mg/l	1.00	ND	108	50.5-150			
Carbon tetrachloride	1.07	0.400	"	1.00	ND	107	13.8-160			
Chlorobenzene	0.926	0.400	"	1.00	ND	92.6	66.9-142			
Chloroform	1.35	0.400	"	1.00	0.145	120	67.5-144			
1,2-Dichloroethane	1.17	0.400	"	1.00	ND	117	69.6-144			
1,1-Dichloroethylene	1.02	0.400	"	1.00	ND	102	24.4-156			
Methyl ethyl ketone	0.912	100	"	1.00	ND	91.2	31.3-167			
Tetrachloroethene	0.919	0.400	"	1.00	ND	91.9	13.6-175			
Trichloroethylene	1.11	0.400	"	1.00	ND	111	26.2-168			
Vinyl chloride	0.913	0.160	"	1.00	ND	91.3	29-152			
Surrogate: Dibromofluoromethane	0.0524		"	0.0500		105	55.9-150			
Surrogate: 1,2-Dichloroethane-d4	0.0508		"	0.0500		102	47.5-150			
Surrogate: Toluene-d8	0.0518		"	0.0500		104	55.4-145			
Surrogate: 4-Bromofluorobenzene	0.0516		"	0.0500		103	40.4-137			

Matrix Spike Dup (6010354-MSD1) Source: B601239-01 Prepared & Analyzed: 01/23/06

Benzene	1.11	0.400	mg/l	1.00	ND	111	50.5-150	2.74	35.4	
Carbon tetrachloride	1.08	0.400	"	1.00	ND	108	13.8-160	0.930	56.3	
Chlorobenzene	0.958	0.400	"	1.00	ND	95.8	66.9-142	3.40	25.8	
Chloroform	1.36	0.400	"	1.00	0.145	122	67.5-144	0.738	35.8	
1,2-Dichloroethane	1.18	0.400	"	1.00	ND	118	69.6-144	0.851	28.3	
1,1-Dichloroethylene	1.02	0.400	"	1.00	ND	102	24.4-156	0.00	38.4	
Methyl ethyl ketone	0.939	100	"	1.00	ND	93.9	31.3-167	2.92	46	
Tetrachloroethene	0.957	0.400	"	1.00	ND	95.7	13.6-175	4.05	39.7	
Trichloroethylene	1.14	0.400	"	1.00	ND	114	26.2-168	2.67	33.7	
Vinyl chloride	0.927	0.160	"	1.00	ND	92.7	29-152	1.52	44.4	
Surrogate: Dibromofluoromethane	0.0514		"	0.0500		103	55.9-150			
Surrogate: 1,2-Dichloroethane-d4	0.0496		"	0.0500		99.2	47.5-150			
Surrogate: Toluene-d8	0.0520		"	0.0500		104	55.4-145			
Surrogate: 4-Bromofluorobenzene	0.0510		"	0.0500		102	40.4-137			

TestAmerica - Buffalo Grove, IL

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Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Semivolatiles by EPA Methods 1311/8270C - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010322 - EPA 3510C TCLP/SPLP

Blank (6010322-BLK1)

Prepared: 01/20/06 Analyzed: 01/23/06

o-Cresol	ND	20.0	mg/l							
m,p-Cresols	ND	20.0	"							
Cresol	ND	20.0	"							
1,4-Dichlorobenzene	ND	0.750	"							
2,4-Dinitrotoluene	ND	0.0200	"							
Hexachlorobenzene	ND	0.0200	"							
Hexachlorobutadiene	ND	0.0500	"							
Hexachloroethane	ND	0.300	"							
Nitrobenzene	ND	0.200	"							
Pentachlorophenol	ND	10.0	"							
Pyridine	ND	0.500	"							
2,4,5-Trichlorophenol	ND	40.0	"							
2,4,6-Trichlorophenol	ND	0.200	"							
Surrogate: 2-Fluorophenol	0.107		"	0.500		21.4	10-110			
Surrogate: Phenol-d6	0.0806		"	0.500		16.1	10-110			
Surrogate: Nitrobenzene-d5	0.129		"	0.250		51.6	10-116			
Surrogate: 2-Fluorobiphenyl	0.130		"	0.250		52.0	10-119			
Surrogate: 2,4,6-Tribromophenol	0.174		"	0.500		34.8	10-114			
Surrogate: p-Terphenyl-d14	0.107		"	0.250		42.8	10-135			

LCS (6010322-BS1)

Prepared: 01/20/06 Analyzed: 01/23/06

o-Cresol	0.137	0.0200	mg/l	0.500		27.4	10-110			
m,p-Cresols	0.261	0.200	"	1.00		26.1	10-110			
Cresol	0.398	0.200	"	1.50		26.5	10-110			
1,4-Dichlorobenzene	0.238	0.0750	"	0.500		47.6	10-110			
2,4-Dinitrotoluene	0.214	0.0200	"	0.500		42.8	10-110			
Hexachlorobenzene	0.207	0.0200	"	0.500		41.4	10-110			
Hexachlorobutadiene	0.221	0.0500	"	0.500		44.2	10-118			
Hexachloroethane	0.211	0.0300	"	0.500		42.2	10-110			
Nitrobenzene	0.274	0.200	"	0.500		54.8	10-119			
Pentachlorophenol	0.201	0.100	"	0.500		40.2	10-110			
Pyridine	0.0704	0.0500	"	0.500		14.1	10-110			
2,4,5-Trichlorophenol	0.177	0.0400	"	0.500		35.4	10-110			
2,4,6-Trichlorophenol	0.172	0.0200	"	0.500		34.4	10-110			
Surrogate: 2-Fluorophenol	0.0998		"	0.500		20.0	10-110			
Surrogate: Phenol-d6	0.0755		"	0.500		15.1	10-110			

TestAmerica - Buffalo Grove, IL

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Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Semivolatiles by EPA Methods 1311/8270C - Quality Control
TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010322 - EPA 3510C TCLP/SPLP

LCS (6010322-BS1)

Prepared: 01/20/06 Analyzed: 01/23/06

Surrogate: Nitrobenzene-d5	0.140		mg/l	0.250		56.0	10-116			
Surrogate: 2-Fluorobiphenyl	0.135		"	0.250		54.0	10-119			
Surrogate: 2,4,6-Tribromophenol	0.177		"	0.500		35.4	10-114			
Surrogate: p-Terphenyl-d14	0.115		"	0.250		46.0	10-135			

Matrix Spike (6010322-MS1)

Source: B601196-01

Prepared: 01/20/06 Analyzed: 01/23/06

o-Cresol	0.173	0.0180	mg/l	0.500	ND	34.6	10-110			
m,p-Cresols	0.333	0.180	"	1.00	ND	33.3	10-110			
Cresol	0.506	0.180	"	1.50	ND	33.7	10-110			
1,4-Dichlorobenzene	0.258	0.0675	"	0.500	ND	51.6	10-110			
2,4-Dinitrotoluene	0.263	0.0180	"	0.500	ND	52.6	10-110			
Hexachlorobenzene	0.208	0.0180	"	0.500	ND	41.6	10-110			
Hexachlorobutadiene	0.221	0.0450	"	0.500	ND	44.2	10-111			
Hexachloroethane	0.224	0.0270	"	0.500	ND	44.8	10-110			
trobenzene	0.310	0.180	"	0.500	ND	62.0	10-115			
Pentachlorophenol	0.237	0.0900	"	0.500	ND	47.4	10-110			
Pyridine	0.0943	0.0450	"	0.500	ND	18.9	10-110			
2,4,5-Trichlorophenol	0.204	0.0360	"	0.500	ND	40.8	10-112			
2,4,6-Trichlorophenol	0.214	0.180	"	0.500	ND	42.8	10-111			
Surrogate: 2-Fluorophenol	0.124		"	0.500		24.8	10-110			
Surrogate: Phenol-d6	0.0955		"	0.500		19.1	10-110			
Surrogate: Nitrobenzene-d5	0.161		"	0.250		64.4	10-116			
Surrogate: 2-Fluorobiphenyl	0.152		"	0.250		60.8	10-119			
Surrogate: 2,4,6-Tribromophenol	0.222		"	0.500		44.4	10-114			
Surrogate: p-Terphenyl-d14	0.110		"	0.250		44.0	10-135			

Matrix Spike Dup (6010322-MSD1)

Source: B601196-01

Prepared: 01/20/06 Analyzed: 01/23/06

o-Cresol	0.150	0.0200	mg/l	0.500	ND	30.0	10-110	14.2	40	
m,p-Cresols	0.292	0.200	"	1.00	ND	29.2	10-110	13.1	40	
Cresol	0.442	0.200	"	1.50	ND	29.5	10-110	13.5	40	
1,4-Dichlorobenzene	0.248	0.0750	"	0.500	ND	49.6	10-110	3.95	40	
2,4-Dinitrotoluene	0.232	0.0200	"	0.500	ND	46.4	10-110	12.5	40	
Hexachlorobenzene	0.201	0.0200	"	0.500	ND	40.2	10-110	3.42	40	
Hexachlorobutadiene	0.223	0.0500	"	0.500	ND	44.6	10-111	0.901	40	
Hexachloroethane	0.223	0.0300	"	0.500	ND	44.6	10-110	0.447	40	
Nitrobenzene	0.281	0.200	"	0.500	ND	56.2	10-115	9.81	40	
Pentachlorophenol	0.214	0.100	"	0.500	ND	42.8	10-110	10.2	40	

TestAmerica - Buffalo Grove, IL

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Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Semivolatiles by EPA Methods 1311/8270C - Quality Control
TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010322 - EPA 3510C TCLP/SPLP										
Matrix Spike Dup (6010322-MSD1)		Source: B601196-01		Prepared: 01/20/06		Analyzed: 01/23/06				
Pyridine	0.0720	0.0500	mg/l	0.500	ND	14.4	10-110	26.8	40	
2,4,5-Trichlorophenol	0.180	0.0400	"	0.500	ND	36.0	10-112	12.5	40	
2,4,6-Trichlorophenol	0.184	0.0200	"	0.500	ND	36.8	10-111	15.1	40	
Surrogate: 2-Fluorophenol	0.108		"	0.500		21.6	10-110			
Surrogate: Phenol-d6	0.0858		"	0.500		17.2	10-110			
Surrogate: Nitrobenzene-d5	0.141		"	0.250		56.4	10-116			
Surrogate: 2-Fluorobiphenyl	0.139		"	0.250		55.6	10-119			
Surrogate: 2,4,6-Tribromophenol	0.187		"	0.500		37.4	10-114			
Surrogate: p-Terphenyl-d14	0.102		"	0.250		40.8	10-135			

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

Percent Solids - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6010302 - General Prep										
Blank (6010302-BLK1)					Prepared & Analyzed: 01/19/06					
% Solids	ND	0.200	%							
Blank (6010302-BLK2)					Prepared & Analyzed: 01/19/06					
% Solids	ND	0.200	%							
Duplicate (6010302-DUP1)					Source: B601237-01		Prepared & Analyzed: 01/19/06			
% Solids	81.7	0.200	%		81.8			0.122	20	
Duplicate (6010302-DUP2)					Source: B601237-02		Prepared & Analyzed: 01/19/06			
% Solids	80.1	0.200	%		79.6			0.626	20	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

General Chemistry Parameters - Quality Control

TestAmerica Analytical - Nashville

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6012707 - NO PREP

Blank (6012707-BLK1)

Prepared: 01/20/06 Analyzed: 01/22/06

Extractable Organic Halides ND 50.0 mg/kg

LCS (6012707-BS1)

Prepared: 01/20/06 Analyzed: 01/22/06

Extractable Organic Halides 982 mg/kg 1000 98 90-113

Duplicate (6012707-DUP1)

Source: NPA1829-05

Prepared: 01/20/06 Analyzed: 01/22/06

Extractable Organic Halides 32.2 50.0 mg/kg 33.1 3 20

Matrix Spike (6012707-MS1)

Source: NPA1758-01

Prepared: 01/20/06 Analyzed: 01/22/06

Extractable Organic Halides 904 50.0 mg/kg 1000 ND 90 61-141

Matrix Spike Dup (6012707-MSD1)


Source: NPA1758-01

Prepared: 01/20/06 Analyzed: 01/22/06

Extractable Organic Halides 1040 50.0 mg/kg 1000 ND 104 61-141 14 20

TestAmerica - Buffalo Grove, IL

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Reviewed & Approved by: 

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Chlorinated Herbicides by EPA Method 8151 - Quality Control

TestAmerica Analytical - Nashville

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6013738 - EPA 8151A										
Blank (6013738-BLK1)										
					Prepared: 01/23/06 Analyzed: 01/24/06					
2,4-D	ND	0.100	mg/L							
2,4,5-TP (Silvex)	ND	0.0100	"							
Surrogate: Dichloroacetic Acid	0.725		"	1.00		72	55-132			
LCS (6013738-BS1)										
					Prepared: 01/23/06 Analyzed: 01/24/06					
2,4-D	0.588	0.100	mg/L	0.500		118	39-140			
2,4,5-TP (Silvex)	0.512	0.0100	"	0.500		102	32-125			
Surrogate: Dichloroacetic Acid	0.979		"	1.00		98	55-132			
Matrix Spike (6013738-MS1)										
					Source: NPA1871-01RE1 Prepared: 01/23/06 Analyzed: 01/25/06					
2,4-D	0.430	0.100	mg/L	0.500	ND	86	33-142			
2,4,5-TP (Silvex)	0.481	0.0100	"	0.500	ND	96	32-125			
Surrogate: Dichloroacetic Acid	0.885		"	1.00		88	55-132			
Matrix Spike Dup (6013738-MSD1)										
					Source: NPA1871-01RE1 Prepared: 01/23/06 Analyzed: 01/25/06					
2,4-D	0.372	0.100	mg/L	0.500	ND	74	33-142	14	48	
2,4,5-TP (Silvex)	0.429	0.0100	"	0.500	ND	86	32-125	11	39	
Surrogate: Dichloroacetic Acid	0.720		"	1.00		72	55-132			

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

TCLP Pesticides by EPA Method 1311/8081A - Quality Control

TestAmerica Analytical - Nashville

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6013290 - EPA 3510C Leachate										
Blank (6013290-BLK1)				Prepared: 01/24/06 Analyzed: 01/26/06						
gamma-BHC (Lindane) [2C]	ND	0.000500	mg/L							
Chlordane [2C]	ND	0.000500	"							
Endrin [2C]	ND	0.000500	"							
Heptachlor [2C]	ND	0.000500	"							
Heptachlor epoxide [2C]	ND	0.000500	"							
Methoxychlor [2C]	ND	0.000500	"							
Toxaphene [2C]	ND	0.0100	"							
Surrogate: Tetrachloro-meta-xylene [2C]	0.00183		"	0.00250		73	58-117			
Surrogate: Decachlorobiphenyl [2C]	0.00216		"	0.00250		86	22-115			
LCS (6013290-BS1)				Prepared: 01/24/06 Analyzed: 01/26/06						
gamma-BHC (Lindane) [2C]	0.00755	0.000500	mg/L	0.0100		76	48-142			MNR
Endrin [2C]	0.00774	0.000500	"	0.0100		77	43-165			MNR
Heptachlor [2C]	0.00426	0.000500	"	0.0100		43	30-134			MNR
Heptachlor epoxide [2C]	0.00882	0.000500	"	0.0100		88	47-140			MNR
Methoxychlor [2C]	0.00742	0.000500	"	0.0100		74	40-145			MNR
Surrogate: Tetrachloro-meta-xylene [2C]	0.00192		"	0.00250		77	58-117			MNR
Surrogate: Decachlorobiphenyl [2C]	0.00204		"	0.00250		82	22-115			MNR
LCS (6013290-BS2)				Prepared: 01/24/06 Analyzed: 01/26/06						
Chlordane [2C]	0.111	0.000500	mg/L	0.0500		222	70-184			H L
Toxaphene	0.119	0.0100	"	0.100		119	85-172			

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601239
Reported: 02/01/06 12:10

Notes and Definitions

- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- Pass No sample flowed.
- MNR No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
- L Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- G33 The method does not specify a hold time for this analysis. Sample preparation and analysis commenced as soon as possible.
- G26 The method requires this analysis to be performed immediately after sampling; however, the analysis was performed as soon as possible upon sample arrival at the laboratory.
- >220 >220 °F
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager



Buffalo Grove, IL 60089-4505
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FAX (847) 808-7772

1380 Busch Parkway
Oak Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

[illegible]

13 January 2006

Lab ID: B601076

Jackie Doan
EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: OMC - Waukegan

Enclosed are the results of analyses for samples received by the laboratory on 01/06/06. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Andy Johnson.

Sincerely,

TestAmerica Analytical Testing Corporation



Deborah Lowe
Laboratory Director



James Knapp
Quality Assurance Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601076
Reported: 01/13/06 17:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EMS-1:1-0-43	B601076-01	Soil	01/05/06 13:40	01/06/06 11:10
EMS-2:1-0-44	B601076-02	Soil	01/05/06 13:40	01/06/06 11:10

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:



Margaret Knies For Andy Johnson, Project Manager

cQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601076
Reported: 01/13/06 17:07

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-1:1-0-43 (B601076-01) Soil Sampled: 01/05/06 13:40 Received: 01/06/06 11:10									
PCB-1016	ND	27.0	ug/kg dry	10	6010092	01/09/06	01/09/06	EPA 8082	
PCB-1221	ND	27.0	"	"	"	"	"	"	
PCB-1232	ND	27.0	"	"	"	"	"	"	
PCB-1242	ND	27.0	"	"	"	"	"	"	
PCB-1248	43800	13500	"	5000	"	"	01/13/06	"	
PCB-1254	ND	27.0	"	10	"	"	01/09/06	"	
PCB-1260	ND	27.0	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53.6 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		60.9 %	10-127	"	"	"	"	"	
EMS-2:1-0-44 (B601076-02) Soil Sampled: 01/05/06 13:40 Received: 01/06/06 11:10									
PCB-1016	ND	26.9	ug/kg dry	10	6010092	01/09/06	01/09/06	EPA 8082	
PCB-1221	ND	26.9	"	"	"	"	"	"	
PCB-1232	ND	26.9	"	"	"	"	"	"	
PCB-1242	ND	26.9	"	"	"	"	01/13/06	"	
PCB-1248	56800	13500	"	5000	"	"	01/09/06	"	
PCB-1254	ND	26.9	"	10	"	"	"	"	
PCB-1260	ND	26.9	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		52.7 %	10-121	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		62.9 %	10-127	"	"	"	"	"	

TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601076
Reported: 01/13/06 17:07

Percent Solids

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EMS-1:1-0-43 (B601076-01) Soil Sampled: 01/05/06 13:40 Received: 01/06/06 11:10									
% Solids	92.5	0.200	%	1	6010078	01/06/06	01/09/06	EPA 5035 7.5	
EMS-2:1-0-44 (B601076-02) Soil Sampled: 01/05/06 13:40 Received: 01/06/06 11:10									
% Solids	92.8	0.200	%	1	6010078	01/06/06	01/09/06	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

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Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601076
Reported: 01/13/06 17:07

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010092 - EPA 3550B

Blank (6010092-BLK1)

Prepared & Analyzed: 01/09/06

PCB-1016	ND	25.0	ug/kg wet							
PCB-1221	ND	25.0	"							
PCB-1232	ND	25.0	"							
PCB-1242	ND	25.0	"							
PCB-1248	ND	25.0	"							
PCB-1254	ND	25.0	"							
PCB-1260	ND	25.0	"							
Surrogate: Tetrachloro-meta-xylene	21.8		"	33.7		64.7	10-121			
Surrogate: Decachlorobiphenyl	26.9		"	33.7		79.8	10-127			

LCS (6010092-BS1)

Prepared & Analyzed: 01/09/06

PCB-1016	63.7	25.0	ug/kg wet	84.0		75.8	14.4-123			
PCB-1260	57.5	25.0	"	84.0		68.5	12.2-132			
Surrogate: Tetrachloro-meta-xylene	20.4		"	33.6		60.7	10-121			
Surrogate: Decachlorobiphenyl	25.1		"	33.6		74.7	10-127			

Matrix Spike (6010092-MS1)

Source: B601093-02

Prepared & Analyzed: 01/09/06

PCB-1016	47.5	25.0	ug/kg wet	81.1	ND	58.6	10-112			
PCB-1260	45.4	25.0	"	81.1	ND	56.0	10-124			
Surrogate: Tetrachloro-meta-xylene	16.7		"	32.4		51.5	10-121			
Surrogate: Decachlorobiphenyl	20.8		"	32.4		64.2	10-127			

Matrix Spike Dup (6010092-MSD1)

Source: B601093-02

Prepared & Analyzed: 01/09/06

PCB-1016	55.4	25.0	ug/kg wet	85.1	ND	65.1	10-112	15.4	40	
PCB-1260	54.4	25.0	"	85.1	ND	63.9	10-124	18.0	40	
Surrogate: Tetrachloro-meta-xylene	17.5		"	34.1		51.3	10-121			
Surrogate: Decachlorobiphenyl	22.7		"	34.1		66.6	10-127			

TestAmerica - Buffalo Grove, IL

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Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

cQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601076
Reported: 01/13/06 17:07

Percent Solids - Quality Control

TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6010078 - General Prep

Blank (6010078-BLK1)

Prepared: 01/06/06 Analyzed: 01/09/06

% Solids	ND	0.200	%
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Duplicate (6010078-DUP1)

Source: B601049-27

Prepared: 01/06/06 Analyzed: 01/09/06

% Solids	89.6	0.200	%	89.8	0.223	20
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TestAmerica - Buffalo Grove, IL

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Approved by:

Margaret Knies

Margaret Knies For Andy Johnson, Project Manager

EQM
1800 Carillon Blvd.
Cincinnati, OH 45240

Project: OMC - Waukegan
Project Number: 10315
Project Manager: Jackie Doan

Lab ID: B601076
Reported: 01/13/06 17:07

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
L This quality control measurement is below the laboratory established limit.
H This quality control measurement is above the laboratory established limit.
^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

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TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
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TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

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Reviewed &
Approved by:

Margaret Kniest

Margaret Kniest For Andy Johnson, Project Manager

CHAIN OF CUSTODY REPORT

1380 Busch Park
Buffalo Grove, Illinois 60089-4505
(847) 808-7766
FAX (847) 808-7772

Client: <u>EQWA</u>		Bill To:		TAT: <u>STD</u> 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: <u>1800 Carillon Blvd.</u>		Address:		DATE RESULTS NEEDED: <u>1/13/96</u>	
City: <u>Cincinnati, OH</u> 45420		Terms: Net 30 days		Received at laboratory: <u>1/13/96</u> Lab Temp. <u>7</u>	
Report to: <u>Jackie Dean</u> Phone #: <u>(513) 825-7500</u>		Phone #: <u></u>		Deliverable Package: <input type="checkbox"/> Delivery Method: <input type="checkbox"/> Shipped <input type="checkbox"/> Courier <input type="checkbox"/>	
E-mail: <u>J.Dean@EQWA.com</u> Fax #: <u></u>		Fax #: <u></u>		State & Program: <u></u>	
Project Name: <u>OMC Plant #2</u>		# of Bottles Preservative Used		ANALYSIS TYPE	
Project #/PO#: <u></u>		NONE		SAMPLE CONTROL	
Sampler: <u>Kan Brown</u>		MeOH		SEAL	
FIELD ID, LOCATION		H2O		CRACKED	
DATE COLLECTED		H2SO4		BROKEN	
TIME COLLECTED		HNO3		LAB USE ONLY	
SAMPLE MATRIX		HCl		LABORATORY ID NUMBER	
1 EMS-1:1-0-43		1		PID: <u>1070-01</u>	
2 EMS-2:1-0-44		1		PID: <u>02</u>	
3					
4					
5					
6					
7					
8					
9					
10					
RELINQUISHED		RELINQUISHED		RECEIVED	
DATE		DATE		DATE	
TIME		TIME		TIME	
RELINQUISHED		RELINQUISHED		RECEIVED	
DATE		DATE		DATE	
TIME		TIME		TIME	
COMMENTS:					
PAGE OF					